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National Highway Traffic Safety Administration

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DYNAMIC SCIENCE, INC. In-Depth Accident Investigation

Case Number: DSI-95-SP-013

, 1996

Technical Report Documentation Page 1. Report No. 2. Government Accession No. 3. Recipient Catalog No. DS 9513 4. Title and Subtitle 5. Report Date In-Depth Accident Investigation 6. Performing Organization Report No. 7. Author(s) 8. Performing Organization Report No. Dynamic Science, Inc. 9. Performing Organization name and Address 10. Work Unit No. (TRAIS) Dynamic Science, Inc. 530 College Parkway, Ste. K. 11. Contract or Grant no. Annapolis, MD 21401 DTNH22-94-D-27058 12. Sponsoring Agency Name and Address 13. Type of report and period Covered [Report Month, Year] U.S. Dept. of Transportation (NRD-32) National Highway Traffic Safety Administration 14. Sponsoring Agency Code 400 7th Street, SW Washington, DC 20590 15. Supplemental Notes 16. Abstract This case was selected for investigation based on the fire involvement of the case vehicle and a possible defect that caused the fire. This two-vehicle 1995, a summer weekday, on a divided trafficway in New Jersey. The collision occurred when Vehicle 2, traveling southbound on a northbound roadway of a north/south trafficway, struck Vehicle 1 in a head-on configuration. Vehicle 1, a 1983 Dodge Ram van, was being driven northbound. There were six occupants in this vehicle. It was reported that the driver and the right front occupant was restrained by lap and shoulder restraints. Restraint usage for he other four occupants is unknown. Vehicle 1 was traveling at a speed estimated as between 81 and 97 KPH (50 and 60 MPH). Vehicle 2, a 1991 Toyota Celica, was being driven southbound on the northbound roadway. The driver of Vehicle 2 was not restrained by the available 3-point manual lap and shoulder restraint. Vehicle 2 was traveling at a speed estimated to have been between 81 and 97 KPH (50 and 60 MPH). This two-vehicle collision occurred when the driver of Vehicle 2 entered the northbound roadway of the north/south trafficway from an unknown exit ramp of the northbound roadway. Once the driver of Vehicle 2 entered the roadway he traveled southbound (the wrong direction). Vehicle 2 struck the front end of Vehicle 1 with its frontal plane. After the initial impact, Vehicle 1 rotated clockwise and the rear end of the vehicle went airborne as it rotated. Vehicle 1, as it was in the air and rotating, mounted the median barrier and slid along the top side of the barrier to its final rest position. During this sequence Vehicle 1 subsequently caught fire. Vehicle 2 was pushed rearward and counterclockwise to its final rest position. Vehicle 1's damage consisted of major frontal damage with the maximum crush of 123.0 cm (48.4 in) on the right front corner. This appears to have caused major intrusion into the occupant compartment, including the movement of the engine rearward and to the left. Police indicated that the fire probably started near the carburetor. It appeared that the gas line came off the carburetor during the movement of the engine. The interior inspection of Vehicle 1 conducted by DSI. showed a heavier burn pattern present in the front portion of the vehicle. This burn pattern would support the information from the state police that the fire was started in the engine compartment. 17. Key Words 18. Distribution Statement Fire, crash,

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20. Security Classif. (of this page)

19. Security Classif. (of this report)

21. No of pages

22. Price

TECHNICAL SUMMARY

CONTRACTOR:

Dynamic Science, Inc.

CASE NUMBER:

DS95013

This case was selected for investigation based on the fire involvement of the case vehicle and a possible defect that caused the fire.

This two-vehicle collision occurred in 1995, a summer weekday, on a divided trafficway in New Jersey. The collision occurred when Vehicle 2, traveling southbound on a northbound roadway of a north/south trafficway, struck Vehicle 1 in a head-on configuration.

Vehicle 1, a 1983 Dodge Ram van, was being driven northbound. There were six occupants in this vehicle. It was reported that the driver and the right front occupant was restrained by lap and shoulder restraints. Restraint usage for the other four occupants is unknown. Vehicle 1 was traveling at a speed estimated as between 81 and 97 KPH (50 and 60 MPH).

Vehicle 2, a 1991 Toyota Celica, was being driven southbound on the northbound roadway. The driver of Vehicle 2 was not restrained by the available 3-point manual lap and shoulder restraint. Vehicle 2 was traveling at a speed estimated to have been between 81 and 97 KPH (50 and 60 MPH).

This two-vehicle collision occurred when the driver of Vehicle 2 entered the northbound roadway of the north/south trafficway from an unknown exit ramp of the northbound roadway. Once the driver of Vehicle 2 entered the roadway he traveled southbound (the wrong direction). Vehicle 2 struck the front end of Vehicle 1 with its frontal plane.

The Delta V for Vehicle 1 was computed, using CRASH-3 PC, as 60 KPH (37 MPH). Vehicle 1 was assigned a CDC of 72FDEW7. The Delta V for Vehicle 2 was computed as 88 KPH (55 MPH). Vehicle 2 was assigned a CDC of 72FDEW4.

After the initial impact, Vehicle 1 rotated clockwise and the rear end of the vehicle went airborne as it rotated. Vehicle 1, as it was in the air and rotating, mounted the median barrier and slid along the top side of the barrier to its final rest position. During this sequence Vehicle 1 subsequently caught fire. Vehicle 2 was pushed rearward and counterclockwise to its final rest position.

Vehicle 1's damage consisted of major frontal damage with the maximum crush of 123.0 cm (48.4 in) on the right front corner. This appears to have caused major intrusion into the occupant compartment, including the movement of the engine rearward and to the left. Police indicated that the fire probably started near the carburetor. It appeared that the gas line came off the carburetor during the movement of the engine. The interior inspection of Vehicle 1 conducted by DSI. showed a heavier burn pattern present in the front portion of the vehicle. This burn pattern would support the information from the state police that the fire was started in the engine compartment (photographs 30 -33).

The driver of Vehicle 1 sustained moderate injuries consisting of a closed head injury with positive loss of consciousness and smoke inhalation. The right front occupant sustained major injuries that later resulted in death. The injuries consisted of bilateral lower extremity third degree burns (about 10%), right buttock tissue avulsion, right femur fracture, left open tibia/fibula fractures, myocardial contusion and mild pulmonary inhalation injury. The driver and the right front occupant were rescued from the burning vehicle by a passing motorist, then were transported by ground ambulance to a trauma center. Further rescue attempts of the other four occupants were impossible due to the vehicle's being engulfed by flames. The driver of Vehicle 1 was the sole survivor in this vehicle. The right front occupant and four rear seated occupants of the vehicle reportedly sustained fatal injuries resulting from the fire in the vehicle and the impact with Vehicle 2.

The driver of Vehicle 2 sustained moderate injuries consisting of a loss of consciousness, subarachnoid hematoma, acetabular column fracture, abdominal contusion, and right knee abrasions, contusions and a laceration with the maximum AIS equal to AIS-3. The driver was transported to a trauma center where he was admitted for treatment.

Vehicles 1 and 2 were towed from the collision scene due to the damage sustained from this collision.

This research was supported by the National Highway Traffic Safety Administration (NHTSA), U.S. Department of Transportation. The opinions, findings, and recommendations contained herein are those of the authors, and do not necessarily represent those of NHTSA.

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The crash investigation process is an inexact science which requires that physical evidence such as skid marks, vehicular damage measurements, and occupant contact points be coupled with the investigator's expert knowledge and experience of vehicle dynamics and occupant kinematics in order to determine the pre-crash, crash, and post-crash movements of involved vehicles and occupants.

Because each crash is a unique sequence of events, generalized conclusions cannot be made concerning the crashworthiness performance of the involved vehicle(s) or their safety systems.

DYNAMIC SCIENCE, INC. ACCIDENT INVESTIGATION CASE NUMBER: DS95013

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Case Number: DS95013

ACCIDENT DATA:	
Location:	New Jersey
Area/Type:	Urban
Date/Time:	Summer / Weekday
Accident Type:	Car/Van - Head-on
INJURY SEVERITY:	
Vehicle 1:	Driver, AIS-3
	R/F Occupant, AIS-4, later reportedly expired
	Four other occupants in the rear portion of the vehicle, unknown seat positions, reportedly sustained fatal injuries
Vehicle 2:	Driver, AIS-3
AMBIENCE:	
Viewing Conditions:	No viewing restriction
Cloud Cover:	Clear
Precipitation:	None
Road Surface:	Dry

ROADWAY:

VEHICLE 1

VEHICLE 2

Type:

Divided trafficway,

5-lane northbound

5-lane northbound

(traveling southbound)

Divided trafficway,

Width:

15.2 m (50.0 ft)

15.2 m (50.0 ft)

Traffic Density:

Light

Light

Median:

Concrete

Concrete

Edge:

Asphalt shoulder

Asphalt shoulder

Surface:

Asphalt

Asphalt

Reported Defects:

None

None

Co-efficient of Friction

.70 dry

.70 dry

(est.):

Vertical Alignment:

Up grade

Down grade

Horizontal Alignment:

Straight

Straight

TRAFFIC CONTROLS:

VEHICLE 1

VEHICLE 2

Signals:

None

None

Signs:

None

Do Not Enter sign wherever Vehicle 1 entered the northbound

roadway

Speed Limit:

89 KPH (55 MPH)

89 KPH (55 MPH)

Markings:

Standard lane

markings

Standard lane markings

VEHICLES:

VEHICLE 1

VEHICLE 2

Description:

1983 Dodge Ram van

1991 Toyota Celica

Odometer:

Unknown, unable to

Unknown, unable to read

read due to the fire in

due to the damage

the vehicle

Engine:

5.2 L / V8

2.2 L / L4

Vehicle Modifications:

None known

None

Tire Condition:

Good tread depth

Good tread depth

Manual Restraints:

Unable to inspect,

fire in vehicle

3-point lap and shoulder restraints at the front seating positions, left and

right rear seating positions; 2-point lap restraints at the rear center seating position.

Automatic Restraints:

None

Supplemental Restraint

System (driver's side air

bag)

Reported Defects:

None

None

Cargo:

Unknown, fire in

None

Windshield Damage:

Unknown, fire in

vehicle

vehicle

Cracked by impact forces

and occupant contact

Fleet:

None

None

Tow Status:

Towed due to

damage

Towed due to damage

VEHICLE DAMAGE:

VEHICLE 1

VEHICLE 2

Object Struck:

Vehicle 2

Vehicle 1

Event Number:

01

01

CDC:

72FDEW7

72FDEW4

Maximum Crush:

123.0 cm (48.4 in) @ C₆ 105.5 cm (41.5 in) @ C₆

VEHICLE VELOCITY ESTIMATES:

VEHICLE 1

VEHICLE 2

Impact Speed:

81 - 97 KPH

81 - 97 KPH (50 - 60 MPH)

(50 - 60 MPH)

60 KPH (37 MPH)

88 KPH (55 MPH)

Total Delta V:

-59 KPH (-37 MPH)

-87 KPH (-54 MPH)

Lateral Delta V:

-10 KPH (-6 MPH)

-15 KPH (-10 MPH)

Energy Dissipation:

Longitudinal Delta V:

474,621.4 joules

228,6616.2 joules

(350,015.8 ft-lbs)

(168,596.0 ft-lbs)

Calculations based upon:

CRASH-3 PC

VEHICLE DAMAGE:

VEHICLE 1 VEHICLE 1

Object Struck: Fire Median Barrier

Event Number: 03 02

CDC: N/A 09LPLW1

Maximum Crush: Zone 1

VEHICLE VELOCITY ESTIMATES:

VEHICLE 1 VEHICLE 1

Impact Speed: N/A 40 - 48 KPH (25 - 30 MPH)

(25 - 30 MFH)

Total Delta V: Not computed, fire in vehicle No Computed, insufficient data

Longitudinal Delta V:

Lateral Delta V:

Energy Dissipation:

Case Number: DS95013

COLLISION SEQUENCE:

PRE-CRASH:

This two-vehicle collision occurred on a summer weekday, on a northbound roadway of a north/south divided trafficway in New Jersey. There is a posted speed limit of 89 kilometers per hour (55 MPH). The collision occurred when Vehicle 2 was traveling southbound (the wrong direction) on the northbound roadway. Vehicle 2 struck Vehicle 1 in a head-on configuration.

Vehicle 1, a 1983 Dodge Ram van, was being driven northbound on the north/south trafficway. The driver was a 59 year old male. In the right front seating position was a 54 year old female. It was reported that the driver and the right front occupant were restrained by lap and shoulder restraints. In the vehicle's rear seating positions, unknown locations, were a 72 year old female, an 80 year old female, a 69 year old female and a 62 year old female. It is unknown if any of the rear occupants were restrained by the available restraint systems in the vehicle. Vehicle 1 was traveling at a speed estimated to have been between 81 and 97 kilometers per hour (50 and 60 MPH).

Vehicle 2, a 1991 Toyota Celica, was being driven southbound by a 24 year old male driver on the northbound roadway. The driver was not restrained by the available 3-point manual lap and shoulder restraint, however, the vehicle had a supplemental restraint system (air bag) that deployed during impact. Vehicle 2 was traveling at a speed estimated to have been between 81 and 97 kilometers per hour (50 and 60 MPH).

This two-vehicle collision occurred when the driver of Vehicle 2 entered the northbound roadway of the north/south trafficway from an unknown exit ramp of the northbound roadway. Once the driver entered the roadway he traveled southbound, the wrong direction on a one-way roadway. Vehicle 2 struck the front end of Vehicle 1 with its frontal plane.

CRASH:

The Delta V for Vehicle 1 was computed, using CRASH-3 PC, as 60 kilometers per hour (37 MPH). Vehicle 1 was assigned a Collision Deformation Classification (CDC) of 72FDEW7 and a Principle Direction of Force (PDOF) of 010 degrees. The combined direct and induced damage width was 130.0 centimeters (51.2 in) [CRASH "L" = 187.0 cm (73.6 in)], and the maximum crush depth was 123.0 centimeters (48.4 in) located at C_6 .

The Delta V for Vehicle 2 was computed as 88 kilometers per hour (55 MPH). Vehicle 2 was assigned a CDC of 72FDEW4 and a PDOF of 010 degrees. The combined direct and

The Delta V for Vehicle 2 was computed as 88 kilometers per hour (55 MPH). Vehicle 2 was assigned a CDC of 72FDEW4 and a PDOF of 010 degrees. The combined direct and induced damage width was 73.0 centimeters (28.7 in) [CRASH "L" = 140.0 cm (55.1 in)], and the maximum crush depth was 105.5 centimeters (41.5 in) located at C_6 .

POST CRASH:

After the impact, Vehicle 1 rotated clockwise and the rear end of the vehicle went airborne. Vehicle 1, as it was in the air, mounted the median barrier and slid along the top side of the barrier to its final rest position, facing southeast. During this time frame it appears Vehicle 1 caught fire. Vehicle 2 was pushed rearward and counterclockwise to its final rest position, facing southeast.

SUPPLEMENTAL RESTRAINT SYSTEM:

Vehicle 2 was equipped with a Supplemental Restraint System (driver's side air bag). The air bag deployed during the collision with Vehicle 1. The longitudinal component of the Delta V for the air bag deployment impact was a minus 87 kilometers per hour (54 MPH).

SCENE CLEARANCE:

The driver and right front occupant of Vehicle 1 were reportedly pulled out of the vehicle by a passing motorist. Further rescue attempts of the other four occupants were impossible due to the vehicle's being engulfed by flames. The driver and right front occupant were transported by ground ambulance to a trauma center for treatment. The other four occupants of Vehicle 1 were fatally injured.

The driver of Vehicle 2 reportedly sustained incapacitating injuries in the collision. On arrival at the scene, a police officer removed the driver from his vehicle, because of fuel spilling under the vehicle and the close proximity of Vehicle 1 that was on fire. He was transported by ground ambulance to a trauma center for treatment.

Vehicles 1 and 2 were towed from the collision scene due to the damage sustained from this collision.

SAFETY STANDARDS:

No violations of the Federal Motor Vehicle Safety Standards were found during vehicle inspections.

DRIVER AND OTHER OCCUPANTS:

VEHICLE 1

DRIVER

OCCUPANT 2

Age/Sex:

59 Yrs. / Male

54 Yrs / Female

Seated Position:

Left Front

Right front

Seat Type:

Bucket Seat / box mounted,

Bucket Seat / box mounted

(van)

(van)

Height:

Unknown

Unknown

Weight:

Unknown

Unknown

Pre-existing Medical

Condition:

None

None

Body Posture:

Upright seated position

Upright seated position

Hand Position:

On Steering Wheel, Unknown

Unknown

location

Foot Position:

Unknown

Unknown

Restraint Usage:

Additional Occupants:

Reportedly wearing a manual

3-point lap and shoulder

3-point lap and shoulder

Reportedly wearing a manual

restraint

restraint

Five

N/A

DRIVER AND OTHER OCCUPANTS (Con't):

VEHICLE 1

OCCUPANT 3 OCCUPANT 4

Age/Sex: 72 Yrs. / Female 80 Yrs / Female

Seated Position: Rear seating position, Rear seating position,

unknown location unknown location

Seat Type: Unknown Unknown

Height: Unknown Unknown

Weight: Unknown Unknown

Pre-existing Medical
Condition: None None

Body Posture: Unknown Unknown

Hand Position: Unknown Unknown

Foot Position: Unknown Unknown

Restraint Usage: Unknown Unknown

Additional Occupants: N/A N/A

DRIVER AND OTHER OCCUPANTS (Con't):

VEHICLE 1

OCCUPANT 5 OCCUPANT 6

None

Age/Sex: 69 Yrs. / Female 62 Yrs. / Female

Seated Position: Rear seating position, unknown location unknown location Rear seating position,

Seat Type: Unknown Unknown Unknown

Height: Unknown Unknown

Weight: Unknown Unknown

Pre-existing Medical

Alcohol/Drug Involvement:

Condition: Unknown Unknown

Body Posture: Unknown Unknown

None

Hand Position: Unknown Unknown

Foot Position: Unknown Unknown

Restraint Usage: Unknown Unknown

Additional Occupants: N/A N/A

DRIVER AND OTHER OCCUPANTS (Con't):

VEHICLE 2

DRIVER

Age/Sex:

24 Yrs. / Male

Seated Position:

Left Front

Seat Type:

Bucket Seat

Height:

Unknown

Weight:

Unknown

Pre-existing Medical

Condition:

None

Alcohol/Drug Involvement:

None

Driving Experience:

8 years

Body Posture:

Upright seated position

Hand Position:

Steering wheel, unknown

location

Foot Position:

Unknown

Restraint Usage:

A supplemental restraint

system (air bag)

Additional Occupants:

None

INJURIES:

Vehicle 1

	INJURY	AIS/OIC Code	ICD-9	Source	Confidence Level
DRIVER	Closed head injury w/ positive loss of consciousness	160802.3,0	850.5	Unknown	Unknown
	Smoke inhalation	919202.3,0	986	Fire in vehicle	Certain
R/F OCCUPANT	Bilateral lower extremity third degree burns (about 10%)	892012.2,3	948.1	Fire in vehicle	Certain
	Right buttock tissue avulsion	590800.1,1	877.0	Unknown	Unknown
	Right femur fracture	851800.3,1	820.8	Instrument panel	Probable
	Left open tibia fracture	853404.3,2	823.82	Toe pan	Probable
	Left open fibula fracture	851605.3,2	823.82	Toe pan	Probable
	Myocardial contusion	441002.3,4	861.01	Unknown	Unknown
	Mild Pulmonary inhalation injury	919203.3,0	986	Fire in vehicle	Certain
Four Rear Seat Occupants	Fatal injuries, due to impact and fire in vehicle				

INJURIES (Con't):

Vehicle 2

	INJURY	AIS/OIC CODE	ICD-9	SOURCE	Confidence Level
DRIVER	Loss of consciousness < 1 hour	160202.2,0	850.1	Windshield	Certain
	Right occipital subarachnoid hematoma	140684.3,1	852.0	Windshield	Certain
	Left upper abdominal quadrant contusion	590402.1,2	922.2	Air bag	Certain
	Right knee abrasions	890202.1,1	916.0	Center instrument panel	Certain
	Right knee contusions	890402.1,1	924.11	Center instrument panel	Certain
	Right knee laceration	890602.1,1	891.0	Center instrument panel	Certain
	Right posterior acetabular column fracture (multiple bone fragments)	852602.2,1	808.0	Center console area	Certain

List of Abbreviations

FT Feet IN Inches

AME After Market Equipment AIS Abbreviated Injury Scale

CCW Counterclockwise

CDC Collision Deformation Classification

C/F Center Front CG Center of Gravity

CM Centimeter
C/R Center Rear
CW Clockwise
E, EB East, Eastbound
FRP Final Rest Position

KG Kilogram

KM/H Kilometers per Hour

L/F Left Front
L/R Left Rear
M Meter

N, NB North, Northbound

NE Northeast NW Northwest

OEM Original Equipment Manufacture PDOF Principal Direction Of Force

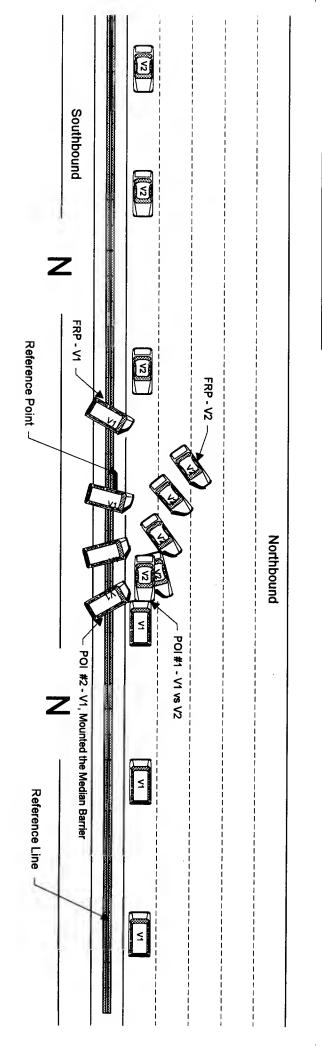
POI Point of Impact R Radius of Curvature

R/F Right Front
RL Reference Line
RP Reference Point
R/R Right Rear

S, SB South, Southbound

SE Southeast SW Southwest V1 Vehicle 1

W, WB West, Westbound



DYNAMIC SCIENCE DSI-95-SP-013 1 CM = 3.6 METERS 1 IN = 30.0 FEET

) 15' 0" 30' 0"



VEHICLES: V1 - 1983 Dodge Ram van V2 - 1991 Toyota Celica

COLLISION MEASUREMENTS

Case Number: DSI-95-SP-013

Reference Point:

North end of storm drain, located near the median barrier

Reference Line:

East side of the median barrier

DATA POINT	LONGITUDINALS	LATERALS
Yellow solid line	0	E 1.0 m (3.3 ft)
1st white broken line	0	E 4.1 m (13.3 ft)
2nd white broken line	0	E 7.1 m (23.3 ft)
3rd white broken line	0	E 10.1 m (33.3 ft)
4th white broken line	0	E 13.5 m (43.3 ft)
White solid line (right edge line)	0	E 16.2 m (53.3 ft)
POI #1 (V1 vs. V2)	S 12.1 m (39.8 ft)	E 2.5 m (8.3 ft)
POI #2 (V1 vs. median barrier) approx.	S 11.0 m (36.0 ft)	0
Vehicle 2 Final Rest Position (FRP)		
Right front wheel	S 0.6 m (2.0 ft)	E 7.1 m (23.3 ft)
Right rear wheel	N 0.9 m (2.8 ft)	E 5.9 m (19.2 ft)
Vehicle 1 Final Rest Position (FRP)		
Right front wheel	N 4.1 m (13.5 ft)	0
Left front wheel	N 4.8 m (15.6 ft)	E 1.5 m (5.0 ft)

MISSING DATA

THE FOLLOWING DATA ARE NOT INCLUDED IN THIS CASE:

PAGE NUMBER(S) (17) photo index





























































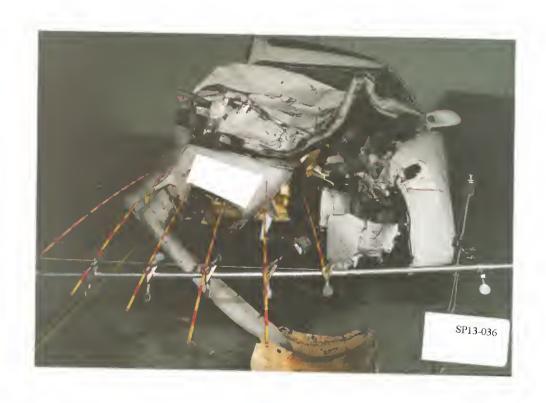




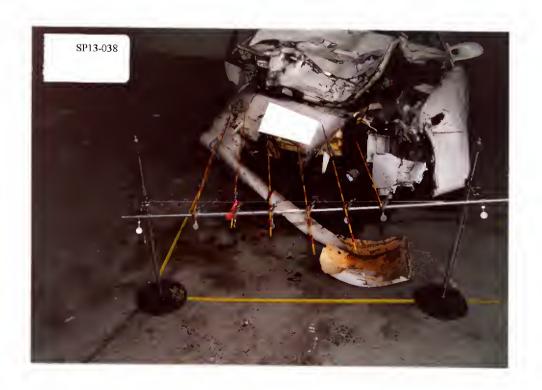


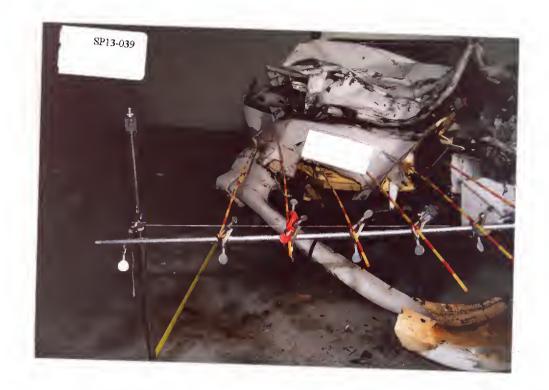


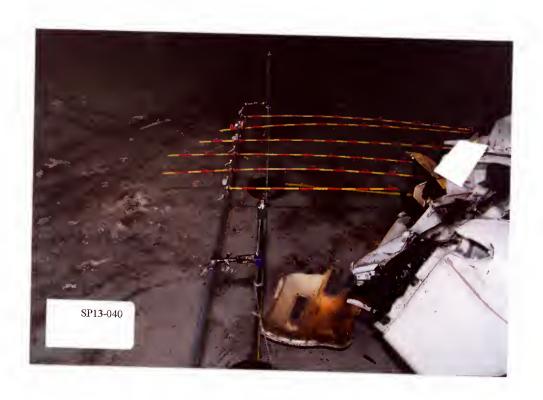


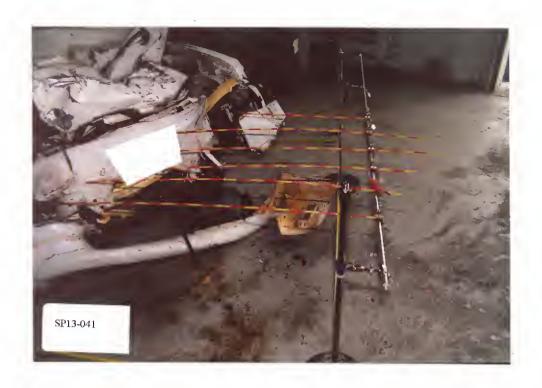




















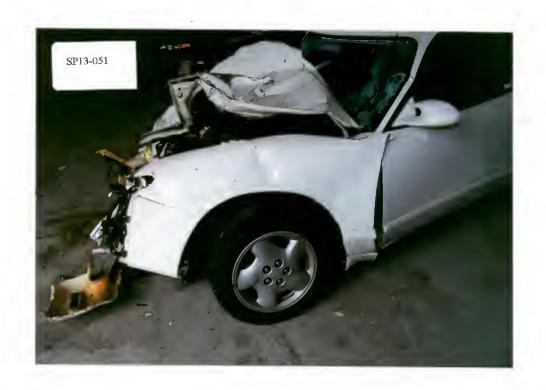




































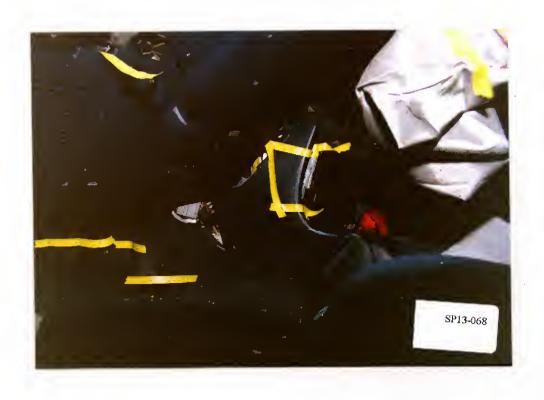


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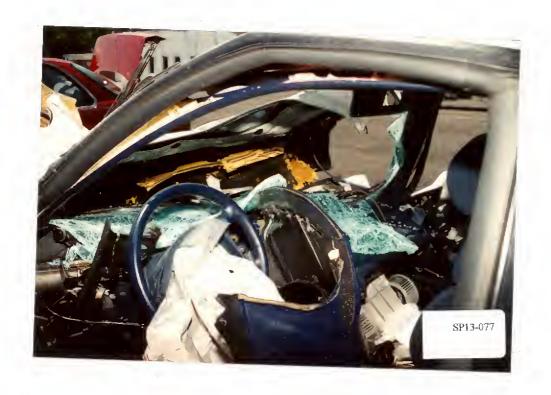












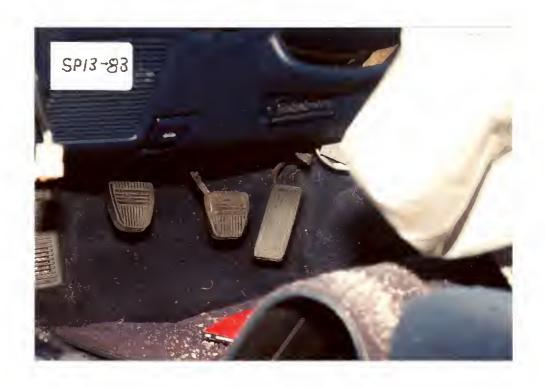
















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4	74 TRAILER OWNER'S FIRST NAME INITIAL SAME AS DRIVER . —	LAST NAME 100 TRAILER OF SAME AS ORIVER	NER'S FIRST NAME IN	TIAL LAST NAME	o
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124 Accident Description								
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UPON MY ARRIVAL AT THE SCENE, OFFI	CEAS							
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125. TROOPER'S SIGNATURE 128. BAOGE								
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MOTOR VEHICLE ACCIDENT DESCRIPTION		Case No.		, _ ,	
124 Accident-Description	P.D.	WERE	CHECKIN	IG THE DRIV	VER OF VEH.2
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DENTITIES IS PENDING THE RESULT	TS CF	DENTAL	RECORD	CHECK.	
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- WERE ISSUED TO DRIVER - 2 PENDING FIRTHER !	M([]]+311	w 6y		<u>An</u>	٥
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P.D. LIERE CHECKING THE DRIVER OF VEH. 2 EMBERS OF VEH. I JUST NOSTH OF THE TWO VEHICLS. DRIVER 2 WAS REMOVED FROM MY VEMICE THE CETTIERS DUE TO THE FUEL STILLING WHIRE THE VEHICLE AND THE OIL PROVIMITY OF VEH. I ON TIRE. E SCHE AND DIVERTED TRAFFIC AROUND IT. FIRE DEFT., AMSTHAME FIRE DEFT., AMSTHAME SECHE AND DIVERTED TRAFFIC DEPARTMENTS. DRIVER AND PRISENCES OF H. I WERE TRANSPORTED TO THINVERSITY HOSPITAL IN BY AND FIRST AID SQUADS RESIDENTIFY. DRIVER 2 WAS TRANSPORTED TO BY FINITIALD SQUAD ALSO. BLOOD WAS DRAWN AND LOCKED AS DENCE AT STATION. ANA I. RESPONDED AND ASSISTED THE STEINE. A.A.I. RESPONDED AND ASSISTED THE STEINE. RESPONDED AND ASSISTED THE STEINE. FOR UNKNOWN PASIENCES IN VEH. 1 DEAD AT 5:40 AM. OF THE FROM UNKNOWN PASIENCES IN VEH. 1 DEAD AT 5:40 AM. WEH. I INTROT WITH THE FOUL UNKNOWN DESCRIED, WERE TRAMSPORTED TO THE M.C. OFFICE IN FOR IDENTIFICATION PARTORS BY E. OFFICE AND ASSISTED IN VEH. 1 DEAD AT 5:40 AM. OF THE FOUL UNKNOWN OF THE FOUL UNKNOWN DESCRIED, WERE TRAMSPORTED TO THE M.C. OFFICE AND ASSISTED IDENTIFIED AS E. OFFICE AND ASSISTED IDENTIFIED AS FEMALE, C. BO OFF E. OFFICE AND ASSISTED IDENTIFIED AS FEMALE, E. OFFICE THAT USES THE RESULTS OF DENTAL RECORDS CHICK. SUMMINSES WHEN IDENTIFIED TO CHICAGO TO THE RESULTS OF DENTAL RECORDS CHICK. SUMMINSES WHEN IDENTIFIED TO CHICAGO TO THE RESULTS OF DENTAL RECORDS CHICK. SUMMINSES DIETOTRAL THAT WAS UMBRET TO DETERMINE IF 4 DECEMBED WERE WEARDERS. DIETOTRAL THAT WAS UMBRET TO DETERMINE IF 4 DECEMBED WEAR AREA WERE WEARING. SAFETY DEWCES.					
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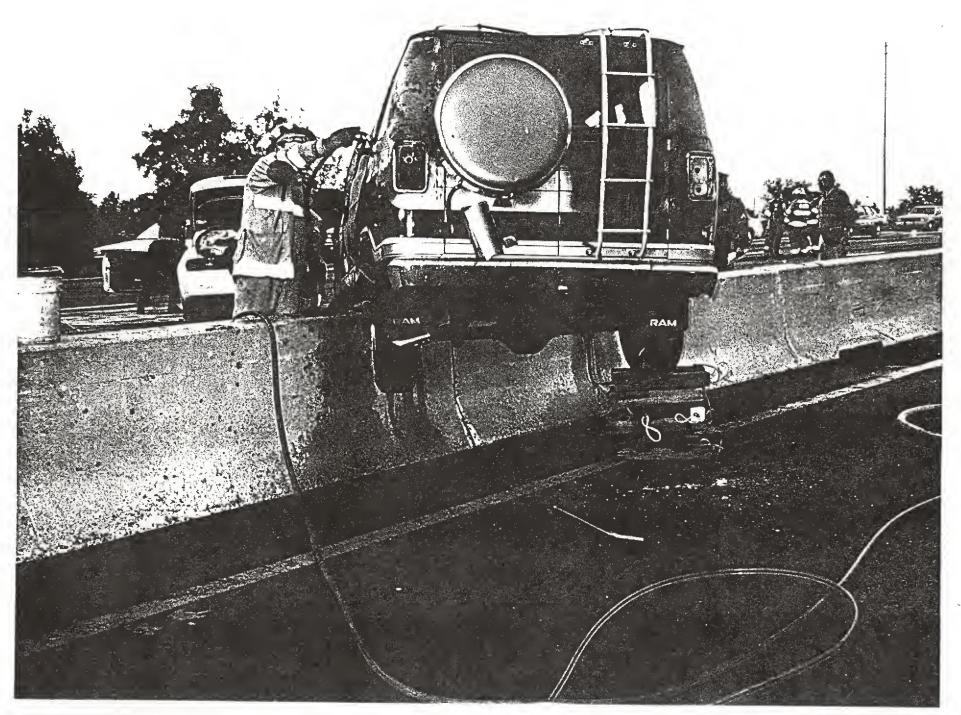
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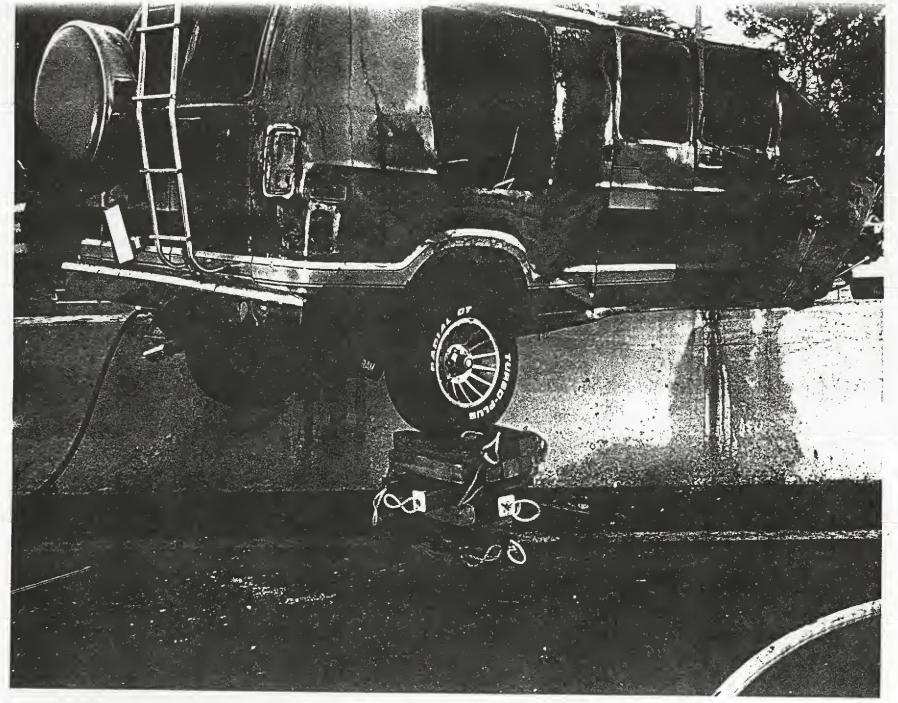
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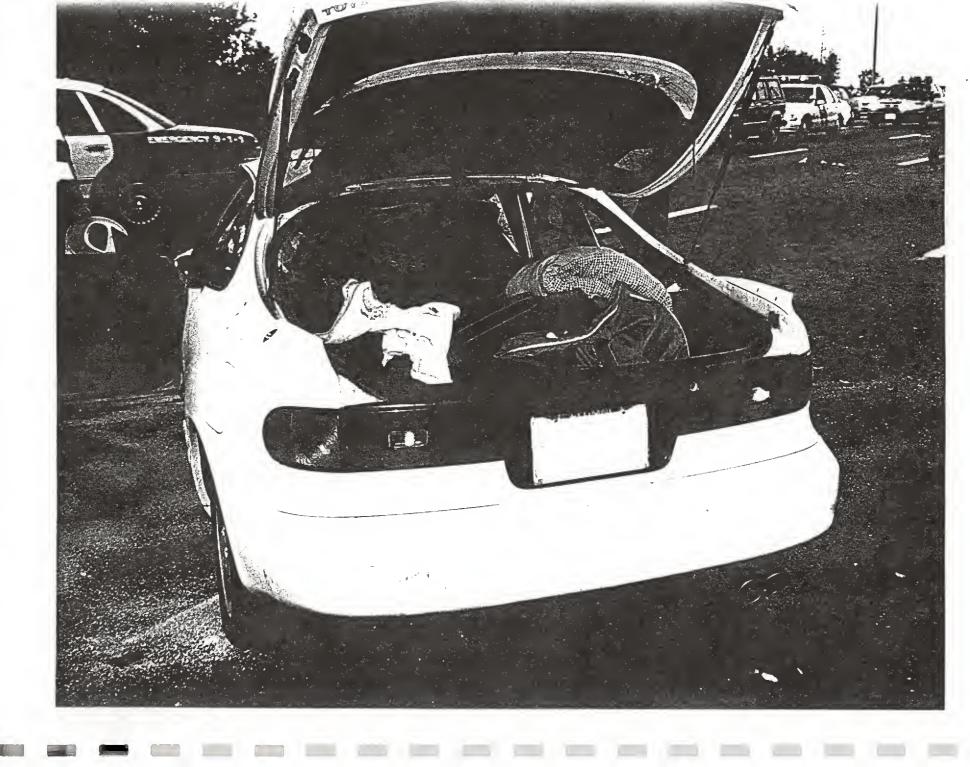
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Summary of Results Using Damage

DSI-95-SP-013

Speed Change (Damage)

Vehicle #1

64 km/h (40 mph) Total -63 km/h (-39 mph) Longitudinal -11 km/h (-7 mph) Latitudinal 10°

PDOF Angle

= 429100 Joules (316445 Ft-Lb)

Energy Dissipated Barrier Equivalent Speed = 72.3 km/h (44.9 mph)

Calculated using size and stiffness categories.

Vehicle #2

94 km/h (58 mph) Total Longitudinal -92 km/h (-57 mph) **Latitudinal** -16 km/h (-10 mph) 10°

PDOF Angle

= 375132 Joules (276646 Ft-Lb) Energy Dissipated Barrier Equivalent Speed = 83.6 km/h (52.0 mph)

Calculated using size and stiffness categories.

General Information

	Vehicle #1	Vehicle #2
Year	1983	1991
Make	Dodge	Toyota
Model	Ram Van	Celica
CDC	12FDEW7	12FDEW4
Side Damaged	F	F
PDOF Angle	10 °	10 °
Heading Angle	0 °	180 °
Calculation method:	Size and Stiffness	Size and Stiffness
Size Category Stiffness Category Vehicle Weight	7 7 1978 kgs (4361 lbs)	2 2 1344 kgs (2963 lbs)

ACCIDENT FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

National Highway Traffic Safety Administration

1. Primary Sampling Unit Number

DS1-95-5P-013

IDENTIFICATION

3. Number of General Vehicle Forms Submitted

2. Case Number - Stratum

Ø2

- 4. Date of Accident (Month, Day, Year) Summer | Weeklay 9 5
- 5. Time of Accident

EARLY MARNING

Code reported military time of accident.

NOTE: Midnight = 2400 Unknown = 9999

SPECIAL STUDIES - INDICATORS

Check () each special study (SS15-SS18 below) that has been completed; code 1 for the checked special studies and 0 for the special studies not checked.

6. ____ SS15 Administrative Use

0

0_

- 7. ____ SS16 Pedestrian Crash Data Study
 (Data for this special study available
 in a separate file.)
- 8. ____ SS17 Impact Fires

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9. ____ SS18 Unsafe Driver Actions

\$

10. ____ SS19

NUMBER OF EVENTS

11. Number of Recorded Events in This Accident

Ø4

Code the number of events which occurred in this accident.

ACCIDENT EVENTS

For each event that occurred in the accident, code the lowest numbered vehicle in the left columns and the other involved vehicle or object in the right columns.

Accident Event Sequence Number	Vehicle Number	Class Of Vehicle	General Area of Damage	Vehicle Number or Object Contacted	Class Of Vehicle	General Area of Damage	
12. <u>0 1</u>	13. Ø /	14. <u>Ø /</u>	15. <u>F</u>	16. <u>Ø 2</u>	17. <u>2 /</u>	18. <u>F</u>	
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26. 0 3	27. <u>Ø</u> 2	28. 2	29. <u>U</u>	30. <u>54</u>	31. <u>Ø</u> <u>Ø</u>	_{32.} <u>ф</u>	
33. <u>0 4</u>	34. Ø 2	35. 2 1	36	37. <u>3</u> 3	38. <u>\$\phi \phi</u>	39	
40. <u>0</u> <u>5</u>	41	42	43	44	45	46	

IF GREATER THAN FIVE EVENTS, CONTINUE CODING ON THE ACCIDENT EVENT SUPPLEMENT

	CODES FO	OR CLASS OF	VEHICLE
(00) Not a motor vehicle (01) Subcompact/mini (wheelb (02) Compact (wheelbase ≥ 25) (03) Intermediate (wheelbase ≥ 27) (04) Full size (wheelbase ≥ 27) (05) Largest (wheelbase ≥ 291) (09) Unknown passenger car s (14) Compact utility vehicle (15) Large utility vehicle (≤ 4,50) (16) Utility station wagon (≤ 4,50) (19) Unknown utility type (20) Minivan (≤ 4,500 kgs GVV (21) Large van (≤ 4,500 kgs GVV (21) Large van (≤ 4,500 kgs GVV (24) Van Based school bus (≤ 28) Other van type (≤ 4,500 kg) (29) Unknown van type (≤ 4,500 kg) (30) Compact pickup truck (≤ 4,500 kg)	54 but < 265 cm) 265 but < 278 cm) 8 but < 291 cm) cm) size 00 kgs GVWR) 500 kgs GVWR) VR) VWR) VWR) 4,500 kgs GVWR) gs GVWR) 00 kgs GVWR)	(68) (78) (79) (80) (90)	Large pickup truck (\le 4,500 kgs GVWR) Other pickup truck (\le 4,500 kgs GVWR) Unknown pickup truck type (\le 4,500 kgs GVWR) Other light truck (\le 4,500 kgs GVWR) Unknown light truck type (\le 4,500 kgs GVWR) Unknown light vehicle type School bus (excludes van based)(> 4,500 kgs GVWR) Other bus (> 4,500 kgs GVWR) Unknown bus type Truck (> 4,500 kgs GVWR) Tractor without trailer Tractor-trailer(s) Unknown medium/heavy truck type Unknown light/medium/heavy truck type Motored cycle Other vehicle Unknown
	CODES FOR CENE	DAL ADEA OF	DAMACE (CAD)
AND OTHER (N) No VEHICLES (F) From	ncollision	RAL AREA OF R) Right side (L) Left side (B) Back	DAMAGE (GAD) (T) Top (U) Undercarriage (9) Unknown
APPLICABLE (N) No VEHICLES (F) Fro	ncollision		(C) Rear of cab (v) Front of cargo area (it with cargo area (v) Front of cargo area (T) Top (U) Undercarriage (9) Unknown
(01-30) — Vehicle Number Noncollision (31) Overturn — rollover (ex.) (32) Rollover — end-over-e (33) Fire or explosion (34) Jackknife (35) Other intraunit damage (36) Noncollision injury (38) Other noncollision (spe	xcludes end-over-end) nd e (specify):	(57) (58) (59) (60) (61) (62) (63) (64) (68)	Fence Wall Building Ditch or culvert Ground Fire hydrant Curb Bridge Other fixed object (specify):
(39) Noncollision — details Collision With Fixed Object (41) Tree (≤ 10 cm in diame (42) Tree (> 10 cm in diame (43) Shrubbery or bush (44) Embankment (45) Breakaway pole or posi	unknown eter) eter)	Collision (70) (71) (72) (73)	with Nonfixed Object Passenger car, light truck, van, or other vehicle not in-transport Medium/heavy truck or bus not in-transport Pedestrian Cyclist or cycle Other nonmotorist or conveyance
Nonbreakaway Pole or Post (50) Pole or post (≤ 10 cm ir (51) Pole or post (> 10 cm b (52) Pole or post (> 30 cm ir (53) Pole or post (diameter t	n diameter) out ≤ 30 cm in diameter) n diameter)	(76) (77) (78) (79) (88)	Vehicle occupant Animal Train Trailer, disconnected in transport Object fell from vehicle in-transport Other nonfixed object (specify): Unknown nonfixed object
(55) Impact attenuator (56) Other traffic barrier (incl (specify):		(98)	Other event (specify): Unknown event or object

STEM STEM

U.S Department of Transportation National Highway Traffic Safety Administration	GENERAL VEHICLE FORM NATIONAL ACCIDENT SAMPLIN CRASHWORTHINESS DAT	IG SYS
Primary Sampling Unit Number Case Number - Stratum Vehicle Number	12. Speed Limit (000) No statutory limit Code posted or statutory speed limit in kmph (999) Unknown	9
4. Vehicle Model Year Code the last two digits of the model (99) Unknown 5. Vehicle Make (specify): Don GE Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (99) Unknown 6. Vehicle Model (specify): RAM VAN Applicable codes are found in your NASS Data Collection, Coding and	13. Police Reported Alcohol Presence For Driver	9
Editing Manual. (999) Unknown 7. Body Type Note: Applicable codes may be founthe back of this page. 8. Vehicle Identification Number 2. B 7 H B 2-3 T 6 D K 1. 2. 3. 4. 5. 6. 7. 6. 9. 10. 11. 1	Source: PAR 15. Police Reported Other Drug Presence For Driver (0) No other drug(s) present (1) Yes other drug(s) present (7) Not reported (8) No driver present	9
Left justify; Slash zeros and letter Z	16. Other Drug Specimen Test Result For Driver (0) No specimen test given (1) Drug(s) not found in specimen (2) Drug(s) found in specimen, (specify): (3) Specimen test given, results unknown or obtained (8) No driver present (9) Unknown if specimen test given 17. Driver's Zip Code (00001) Driver not a resident of U.S. or territories Code actual 5-digit zip code	not
OFFICIAL RECORD 10. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown	18. Driver's Race/Ethnic Origin (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic)	9_
11. Police Reported Travel Speed Code to the nearest kmph (NOTE: 00 less than 0.5 kmph) (160) 159.5 kmph and above (999) Unknownmph X 1.6093 = kmph	(5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (7) Other (specify): (8) No driver present (9) Unknown	

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safan, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab, ≤ 4,500 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Counier, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsun/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Čab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4,500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)
- (63) Single unit straight truck (> 12,000 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):_____
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

	PRECRASH ENVIRONMENTAL DATA		
		25. Roadway Surface Condition	
19.	Relation To Interchange Or Junction	(1) Dry	
	(0) Non-interchange area and non-junction	(2) Wet	
	(1) Interchange area related	(3) Snow or slush	
		(4) Ice	
	Non-Interchange junctions	(5) Sand, dirt, or oil	
	(2) Intersection related	(8) Other (specify):	
Ì	(3) Driveway, alley access related	(9) Unknown	
	(4) Other junction (specify)		
		26. Light Conditions	3
	(5) Unknown type of junction		
	(, =	(1) Daylight	
	(9) Unknown	(2) Dark	
		(3) Dark, but lighted	
		(4) Dawn	
20.	Trafficway Flow 2	(5) Dusk	
	(0) Not physically divided (two way traffic)	(9) Unknown	
	(1) Divided trafficway-median strip without positive		
	barrier barrier	07.4	1
	(2) Divided trafficway-median strip with positive barrier	27. Atmospheric Conditions	<u> </u>
	(3) One way traffic	(0) No adverse atmospheric-related driving	,
	(9) Unknown	conditions	
	(9) Chikilowii	(1) Rain	
		(2) Sleet/hail	
21.	Number Of Travel Lanes . 5	(3) Snow	
	(1) One	(4) Fog	
	(2) Two	(5) Rain and fog	
	(3) Three	(6) Sleet and fog	
	(4) Four	(7) Other (e.g., smog, smoke, blowing sand or	dust,
	(5) Five	etc.) (specify):	
	(6) Six	(9) Unknown	
	(7) Seven or more		,
	(9) Unknown	28. Traffic Control Device	Ø
		(0) No traffic control(s)	
		(1) Traffic control signal (not RR crossing)	
	Roadway Alignment	•	
	(1) Straight	Regulatory	
	(2) Curve right	(2) Stop sign	
	(3) Curve left	(3) Yield sign	
((9) Unknown	(4) School zone sign	
		(5) Other regulatory sign (specify):	
23 1	Roadway Profile		
	1) Level	(6) Warning sign (not RR crossing)	
	2) Uphill grade (>2%)	(7) Unknown sign	
	3) Hill crest	(8) Miscellaneous/other controls including RR	
	4) Downhill grade (>2%)	controls (specify):	
	5) Sag		
	9) Unknown	(9) Unknown	
'	9) Olikilowii		
24. F	Roadway Surface Type <u>2</u>	29. Traffic Control Device Functioning	A
	1) Concrete	(0) No traffic control device	-y-
Ò	2) Bituminous (asphalt)	(1) Traffic control device not functioning	/
	3) Brick or block	(specify)	ſ
-	4) Slag, gravel, or stone	:	
	5) Dirt	(2) Traffic control device functioning properly	
	B) Other (specify):	(9) Unknown	
	9) Unknown	(5) •	l
`			ŀ

korż Carc-	Configur- ation	ACCIDENT TYPE	ES (includes intent)	BEST AVAILABLE
1	A. Right Roadside Departure	DRIVE OFF CONTROL/ ROAD TRACTION LOSS	AVOID COLLISION WITH VEH., PED., ANIM	04 06 SPECIFICS SPECIFICS OTHER
1. Single Driver	B. Left Roadside Departure	ORIVE OFF CONTROL/ ROAD TRACTION LOSS	AVOID COLLISION	09 10
	C Forward Impact	PARKED VEH. STA. OBJECT PEDES	TRIAN/ END	T 15 16 SPECIFICS SPECIFICS
ien oo	D Rear-End	STOPPED SLOWER	26 28 30 25 29 71 29 27 71 31	(EACH + 32) (EACH + 33
Il Sane Trafficway Same Direction	f: Forward Impact	21. 22. 23 25. 26, 27 34 35 36 57 CONTROL/ CONTROL/ AVOIT TRACTION LOSS WITH	29, 30, 31	SPECIFICS
	F. Sideswipe Angle	46 46 45 45 47	(EACH • 48) SPECIFICS OTHER	(EACH • 49) SPECIFICS UNKNOWN
i ay Ction	G Head-On	50 51 (EACH • 52) SPECIFICS OTHER	(EACH • 53) SPECIFICS UNKNOW	wn
Same Trafficway Opposite Direction	H Forward Impact	54 55 56 57 58 CONTROL/ TRACTION LOSS TRACTION LOSS WITH	DID COLLISION AVOID COLLINATION WITH OBJECT	CII (EACH • 62)(EACH • 6
= /	1. Sideswipe' Angle	65 (EACH • 66) SPECIFICS OTHER	(EACH • 67) SPECIFICS UNKNOV	
Change Trafficway Vehicle Turning	J. Turn Across Path	69 71 70 INITIAL OPPOSITE INITIAL SAME DIRECTIONS	73————————————————————————————————————	(EACH • 74) (EACH • 75) SPECIFICS SPECIFICS OTHER UNKNOWN
<u>≥</u>	K. Turn Into Path	77 79 80 80 TURN INTO SAME DIRECTION TURN	81 83 83	(EACH • 84) (EACH • 85
ing Palm (Vehicle Dainage)	L. Siraight Paths	87 88 89	(EACH • 90) SPECIFICS OTHER	(EACH • 91) SPECIFICS UNKNOWN
VI Miscel· Iancous	M. Backing Eic.	92 93 OTHER VEH. OR OBJECT VEH.	98 Other Accide 99 Unknown Ac 00 No Impect	nt Type cident Type

	PRECRASH DRIVER RELATED DATA	This Vehicle Traveling
30	Driver's Distraction/Inattention To Driving 9 9	(10) Over the lane line on left side of travel lane
1 50	(Prior To Recognition Of Critical Event)	(11) Over the lane line on right side of travel lane
1	(00) No driver present	(12) Off the edge of the road on the left side
1	(01) Attentive or not distracted	(13) Off the edge of the road on the right side
	(02) Looked but did not see	(14) End departure
1	Distractions	(15) Turning left at intersection
	(03) By other occupant(s), (specify):	(16) Turning right at intersection
ļ		(17) Crossing over (passing through) intersection
l	(04) By moving object in vehicle (specify):	(18) This vehicle decelerating (19) Unknown travel direction
1		(19) Offknown travel direction
ĺ	(05) While talking or listening to cellular phone (specify	Other Motor Vehicle In Lane
	location and type of phone):	(50) Other vehicle stopped
	(06) While dialing collular shape (and if I heating and	(51) Traveling in same direction with lower steady
i i	(06) While dialing cellular phone (specify location and type of phone):	speed
l	type of phone,	(52) Traveling in same direction while decelerating
]	(07) While adjusting climate controls	(53) Traveling in same direction with higher speed
	(08) While adjusting radio, cassette, CD (specify):	(54) Traveling in opposite direction
	(see, seems as, asmig table, sacrono, see (speedily).	(55) In crossover
	(09) While using other device/object in vehicle (specify):	(56) Backing
		(59) Unknown travel direction of other motor vehicle in
	(10) Sleepy or fell asleep	lane
	(11) Distracted by outside person, object, or event	Other Motor Vehicle Encroaching Into Lane
	(specify):	(60) From adjacent lane (same direction)—over left
Ì	(40) Faliance de Lie	lane line
l	(12) Eating or drinking	(61) From adjacent lane (same direction)—over right
	(13) Smoking related	lane line
	(97) Distracted/inattentive, details unknown (98) Other, distraction (specify):	(62) From opposite direction—over left lane line
	(30) Other, distraction (specify).	(63) From opposite direction—over right lane line
	(99) Unknown	(64) From parking lane
24	· ·	(65) From crossing street, turning into same direction
31.	Pre-Event Movement (Prior to	(66) From crossing street, across path
	Recognition of Critical Event)	(67) From crossing street, turning into opposite
	(00) No driver present (01) Going straight	direction
	(02) Decelerating in traffic lane	(68) From crossing street, intended path not known
	(03) Accelerating in traffic lane	(70) From driveway, turning into same direction
	(04) Starting in traffic lane	(71) From driveway, across path
	(05) Stopped in traffic lane	(72) From driveway, turning into opposite direction(73) From driveway, intended path not known
	(06) Passing or overtaking another vehicle	(74) From entrance to limited access highway
	(07) Disabled or parked in travel lane	(78) Encroachment by other vehicle—details unknown
	(08) Leaving a parking position	(70) Endodominant by attract variate—details difficient
	(09) Entering a parking position	Pedestrian, Pedalcyclist, or Other Nonmotorist
	(10) Turning right	(80) Pedestrian in roadway
	(11) Turning left	(81) Pedestrian approaching roadway
	(12) Making a U-turn	(82) Pedestrian—unknown location
	(13) Backing up (other than for parking position) (14) Negotiating a curve	(83) Pedalcyclist or other nonmotorist in roadway
	(14) Negotiating a curve (15) Changing lanes	(specify):
	(16) Merging laries	(84) Pedalcyclist or other nonmotorist approaching
	(17) Successful avoidance maneuver to a previous	roadway, (specify):
	critical event	(85) Pedalcyclist or other nonmotorist—unknown location (specify):
	(97) Other (specify):	location (specify).
		Object or Animal
	(99) Unknown	(87) Animal in roadway
		(88) Animal approaching roadway
	Critical Precrash Event 54	(89) Animal—unknown location
	This Vehicle Loss of Control Due To:	(90) Object in roadway
	(01) Blow out or flat tire	(91) Object approaching roadway
	(02) Stalled engine	(92) Object—unknown location
((03) Disabling vehicle failure (e.g., wheel fell off)	(98) Other critical precrash event (specify):
	(specify):	
((04) Non-disabling vehicle problem (e.g., hood flew up) (specify):	(99) Unknown
1	(Specify). O5) Poor road conditions (puddle, pot hole, ice, etc.)	
,	(specify):	
(06) Traveling too fast for conditions	
	08) Other cause of control loss (specify):	
•		

(09) Unknown cause of control loss

STOP HERE IF GV07 DOES NOT EQUAL 01 - 49

OCCUPANT RELATED	44. Vehicle Cargo Weight 9, 9, 9, 0
37. Driver Presence in Vehicle	Code weight to nearest
(0) Driver not present (1) Driver present	(000) Less than 5 kilograms
(9) Unknown	(450) 4,500 kilograms or more
1 /	(999) Unknown bs X .4536 = kgs
38. Number of Occupants This Vehicle	
(00-96) Code actual number of occupants for this vehicle	Source:
(97) 97 or more	ROLLOVER DATA
(99) Unknown	45. Rollover di di
39. Number of Occupant Forms Submitted ϕ	(00) No rollover (no overturning)
	Rollover (primarily about the longitudinal axis)
AIR BAG RELATED	(01-16) Code the number of quarter turns
40. Is this an AOPS Vehicle?	(17) Rollover, 17 or more quarter turns (specify):
(0) No (includes unknown)	(98) Rollover-end-over-end (i.e., primarily about
(1) Yes - researcher determined	the lateral axis)
(2) VIN determined air bag system (3) VIN determined automatic (passive) belts (4) VIN determined air bag and automatic (passive)	(99) Rollover (overturn), details unknown
(4) VIN determined air bag and automatic (passive)	46. Rollover Initiation Type
belts	(00) No rollover
41. Air Bag(s) Deployment, First Seat Frontal	(01) Trip-over
(0) Not equipped or not available	(02) Flip-over (03) Turn-over
(1) No air bags deployed	(04) Climb-over
Single Air Bag Vehicle	(05) Fall-over
(2) Driver air bag deployed (3) Driver air bag, unknown if deployed	(06) Bounce-over
	(07) Collision with another vehicle (08) Other rollover initiation type specify):
Multiple Air Bag Vehicle (4) Driver side only deployed	
(4) Driver side only deployed(5) Passenger side only deployed	(98) Rolloverend-over-end
(9) Unver and passenger side deployed	(99) Unknown rollover initiation type
(7) Driver and passenger side unknown if deployed	47. Location of Rollover Initiation
(8) Air bag(s) deployed, details unknown (9) Unknown	(0) No rollover (1) On roadway
(9) Unknown	(1) On roadway (2) On shoulder—paved
42. Air Bag(s) Deployment, Other Than First	(3) On shoulder—unpaved
Seat T	(4) On roadside or divided trafficway median (8) Rolloverend-over-end
Frontal (0) Not equipped with an "other" air bag	(9) Unknown
 (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) 	1 1
(2) Deployed inadvertently just prior to accident	48. Rollover Initiation Object Contacted (Note: Applicable codes on back of page)
(3) Deployed, details unknown (4) Deployed as a result of a noncollision event	(Note: Applicable codes on back of page)
 (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, 	49. Location on Vehicle Where Initial Principal
electrical)	Tripping Force Is Applied (0) No rollover
(5) Unknown if deployed (7) Nondeployed	(1) Wheels/tires
(7) Nondeployed (9) Unknown	(2) Side plane
• •	(3) End plane (4) Undercarnage
Specify type of "other" air bag present:	(4) Undercarnage (5) Other location on vehicle (specify):
	(6) Non-contact rollover forces (specify):
VEHICLE WEIGHT ITEMS	(8) Rolloverend-over-end (9) Unknown
42 Vahiala Quet W. L.	50. Direction of Initial Roll
43. Vehicle Curb Weight /_, 5 6 0	(0) No rollover
10 kilograms.	(1) Roll right - primarily about the longitudinal axis
(045) Less than 450 kilograms	(2) Roll left - primanly about the longitudinal axis (8) Rolloverend-over-end
(610) 6,100 kilograms or more (999) Unknown	(9) Unknown roll direction
$\phi 3, 4.73$ lbs x .4536 = 1.575 kgs	
Source:_	

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) (01-	No rollover 30) — Vehicle Number	(57) (58)	Fence Wall
Manaal	liaiaa	(59)	Building
Noncol		(60)	
(31)	Tum-over — fall-over	(61)	
(32)	No rollover impact initiation (end-over-end)	(62)	Fire hydrant
(34)	Jackknife	(63)	Curb
0 - 11:-1-	. 146th Ft. 1-011 4	(64)	
Collisio	n_With_Fixed Object	(68)	Other fixed object (specify):
(41)	Tree (≤ 10 cm in diameter)		
(42)	Tree (> 10 cm in diameter)	(69)	Unknown fixed object
(43)	Shrubbery or bush		
(44)	Embankment		n with Nonfixed Object
		(70)	Passenger car, light truck, van, or other vehicle
(45)	Breakaway pole or post (any diameter)		not in-transport
		(71)	Medium/heavy truck or bus not in-transport
Nonbre	akaway Pole or Post	(76)	Animal
(50)	Pole or post (≤ 10 cm in diameter)	(77)	Train
(51)	Pole or post (> 10 cm but ≤ 30 cm in dlameter)	(78)	Trailer, disconnected in transport
(52)	Pole or post (> 30 cm in diameter)	(79)	Object fell from vehicle in-transport
(53)	Pole or post (diameter unknown)		Other nonfixed object (specify):
	,	` '	
	Concrete traffic barrier	(89)	Unknown nonfixed object
(55)	Impact attenuator	` ,	
(56)	Other traffic barrier (includes guardrail) (specify):	(98)	Other event (specify):
		(99)	Unknown event or object

OVERRIDE/UNDERRIDE (THIS VEHICLE)	ACCIDENT RECONSTRUCTION PROGRAMS
51. Front Override/Underride (this Vehicle)	HIGHEST DELTA V
52. Rear Override/Underride (this Vehicle) (0) No override/underride, or not an end-to-end impact between two CDS applicable vehicles, and no medium/heavy truck or bus underride	58. Basis for Total (Resultant) Delta V (highest) (00) No vehicle inspection
Override (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07=1-49)] (1) 1st CDC (2) 2nd CDC (3) Other not automated CDC (specify):	Delta V Calculated (01) Reconstruction program -damage only routine (02) Reconstruction program -damage and trajectory routine (03) Missing vehicle algorithm Delta V Not Calculated (04) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable
(6) Other not automated CDC (specify):	reconstruction program, regardless of collision conditions.
(7) Medium/heavy truck or bus override (of any configuration)(9) UnknownHEADING ANGLE AT IMPACT FOR	All vehicles within scope (CDC applicable) of reconstruction program but one of the collision conditions is beyond the scope of the reconstruction
HIGHEST DELTA V	program or other acceptable reconstruction technique, regardless of adequacy of damage data.
Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown 53. Heading Angle For This Vehicle 54. Heading Angle For Other Vehicle RECONSTRUCTION DATA 55. Towed Trailing Unit (0) No towed unit	 (05) Rollover (06) Other non-horizontal forces (07) Sideswipe type damage (08) Severe override (09) Yielding object (10) Overlapping damage (11) All vehicle and collision conditions are within scope of one of the acceptable reconstruction programs, but there is insufficient data available,
(1) Yes—towed trailing unit (9) Unknown	(98) Other, (specify):
66. Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	
67. Post Collision Condition of Tree or Pole (For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted <45 degrees (4) Tilted ≥45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify):	

COMPUTER GENERA	TED CRASH SEVERITY
59. Total Delta V	Highest Galler Speed Nearest kmph (highest) Nearest kmph (secondary) (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (998) Trajectory algorithm not run (999) Unknown
Nearest kmph (secondary) (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (999) Unknown Highest 61. Lateral Component of Delta V	64. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable OTHER SPEED ESTIMATE
Nearest kmph (secondary) (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (_999) Unknown 62. Energy Absorption	Highest 65. Barrier Equivalent Speed ——————————————————————————————————
H7467/4 Nearest 100 joules (highest) Nearest 100 joules (secondary) (NOTE: 0000 means less than 50 joules) (9997) 999,650 joules or more (9999) Unknown	(999) Unknown

IS MISSING VEHICLE ALGORITHM APPLICABLE FOR THIS VEHICLE? [] YES [] NO

IF YES: IS A COMPLETED PROGRAM SUMMARY INCLUDED? [] YES [] NO

ESTIMATED DELTA V VEHICLE INSPECTION 66. Estimated Highest Delta V (Researcher 67. Type of Vehicle Inspection Determined) (0) No inspection (0) Reconstruction Delta V coded (1) Vehicle fully repaired-no damage evident (2) Partial inspection (specify): Estimated Delta V (1) Less than 10 kmph (3) Complete inspection (2) ≥ 10 kmph but < 25 kmph (3) ≥ 25 kmph but < 40 kmph (4) ≥ 40 kmph but < 55 kmph (5) ≥ 55 kmph Other estimates of damage severity (6) Minor (7) Moderate (8) Severe (9) Unknown

*** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV67=0), ***

DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE ***

THE EXTERIOR VEHICLE, INTERIOR VEHICLE,

OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS.

Administration

EXTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

3. Vehicle Number 1. Primary Sampling Unit Number DS1-95-5P-013 2. Case Number - Stratum VEHICLE IDENTIFICATION VIN 2 B 7 H B 2 3 T 6 D K X X X X X Model Year 8 3 Vehicle Make (specify): DODGE Vehicle Model (specify): Ram VAN LOCATOR Locate the end of the damage with respect to the vehicle longitudinal center line or bumper corner for end impacts or an undamaged axle for side impacts. Specific Impact No. Location of Direct Damage Location of Field L Location of Max Crush RONTAL FULL FRONTAL CRUSH PROFILE IN CENTIMETERS NOTES: Identify the plane at which the C-measurements are taken (e.g., at bumper, above bumper, at sill, above sill, etc.) and label adjustments (e.g., free space). Measure C1 to C6 from driver to passenger side in front or rear impacts and rear to front in side impacts. Free space value is defined as the distance between the baseline and the original body contour taken at the individual C locations. This may include the following: bumper lead, bumper taper, side protrusion, side taper, etc. Record the value for each C-measurement and maximum crush. Use as many lines/columns as necessary to describe each damage profile. **Direct Damage** Specific Plane of Impact Field Impact C_2 Width Max C, C_3 C C_5 C, ±D C-Measurements Number (CDC) Crush PRIVIT KUMPER 13*d* H23.S 54 ESS ADSUSTIMENT 127 Ø *ነ*ጔ3.ડ ESS F/S Ø ø RESULTANT 173

ORIGINAL SPECIFICATIONS WORK SHEET

Wheelbase	<u> </u>	x 2.54	=	<u> 324</u> cm
Overall Length	$\underline{196.9}$ inches	x 2.54	=	<i>5₫₫</i> cm
Maximum Width	$\cancel{\cancel{p}}$ 7 9 .9 inches	x 2.54	=	2 <u>63</u> cm
Curb Weight	$\phi 3.473$ pounds	x .4536	=	1.575 kg
Average Track	<i>\\\\/</i> //// inches	x 2.54	=	<i>N//</i> }_cm
Front Overhang	$\cancel{\phi}$ 3.8.3 inches	x 2.54	=	<u> 472</u> cm
Rear Overhang	$\cancel{\cancel{\phi}}\cancel{\cancel{\psi}}\cancel{\cancel{\phi}}\cancel{\cancel{g}}$ inches	x 2.54	=	<u> 1 Ø 4</u> cm
Undeformed End Width	Ø 7.3.6 inches	x 2.54	=	187cm
Engine Size: cyl./displ.	52 Ø Ø 00	x .001	= 、	5.2 L
	311 CID	x .0164	=	<u>5.2</u> L

	VEHICLE DAMAGE SKETCH	
TIRE—WHEEL DAMAGE 3. Rotation physically b. Tire restricted deflated RF	ORIGINAL SPECIFICATIONS Wheelbase 324 cm Overall Length 566 cm Maximum Width 243 cm Curb Weight /575 kg Average Track M/A cm Front Overhang 72 cm Rear Overhang /64 cm Undeformed End Width /87 cm	WHEEL STEER ANGLES (For locked front wheels or displaced rear axles only) RF
	Engine Size: cyl./displ L	Cargo Weight UNK kg
	MEASUREMENTS IN CENTIMETERS	
X X X X X X X X X X X X X X X X X X X	POST-CRASH	14/2 30 15
	Stringline 52	<u>ドラ</u> Bumper corner <u>/04</u> Stringline
MAK CRUSH	Bumper corner N/A 256 Stringline / D4	Bumper corner 40 Stringline

NOTES: Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewalls, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page.

Annotate any damage caused by extrication such as component removal by torching, prying, or hydraulic shears.

	CDC WO	RKSHEE	ΞΤ
	CODES FOR OBJ	ECT CONT	TACTED
(01-30)) — Vehicle Number		Fence
Nonco	Ilicion	(58)	
	Overturn — rollover (excludes end-over-end)		Building
(32)	Rollover—end-over-end	(60) (61)	
	Fire or explosion	(62)	
	Jackknife Jackknife		Curb
	Other intraunit damage (specify):	(64)	
(,	a a.e. madami damago (opoony).	(68)	Other fixed object (specify):
(36)	Noncollision injury	(00)	Outer fixed object (specify).
(38)		(69)	Unknown fixed object
(39)	Noncollision — details unknown	Collisio	n with Nonfixed Object
			Passenger car, light truck, van, or other vehicle
	n With Fixed Object		not in-transport
	Tree (≤ 10 cm in diameter)	(71)	Medium/heavy truck or bus not in-transport
	Tree (> 10 cm in diameter)		Pedestrian
	Shrubbery or bush	(73)	Cyclist or cycle
(44)	Embankment	(74)	Other nonmotorist or conveyance
(45)	Breakaway pole or post (any diameter)	(75)	Vehicle occupant
		(76)	Animal
Nonbre	akaway Pole or Post	(77)	Train
(50)	Pole or post (≤ 10 cm in diameter)	(78)	Trailer, disconnected in transport
(51)	Pole or post (> 10 cm but ≤ 30 cm in diameter)	(79)	
(52)	Pole or post (> 30 cm in diameter)	(88)	Other nonfixed object (specify):
(53)	Pole or post (diameter unknown)		
		(89)	Unknown nonfixed object
	Concrete traffic barrier		
(55)	Impact attenuator	(98)	Other event (specify):
(56)	Other traffic barrier (includes guardrail)		
	(specify):	(99)	Unknown event or object

	DEFORMATION CLASSIFICATION BY EVENT NUMBER									
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force (degrees)	Incremental Value of Shift	(3) Deformation Location	(4) Specific Longitudinal or Lateral Location	(5) Specific Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent		
# 1 # 2 # 3	\$\frac{\psi}{5 4}\$ \[\frac{5 4}{3 3} \]	Ø 1 Ø 2 6 Ø	6 Ø Ø Ø	F	D P 9	<u>E</u> 49	W W	Ø 7 Ø 1 9 9		
Ψ- <i>4</i> -				<u> </u>			<u> </u>	<u> </u>		
										
										
										
										

	COLLISION DEFORMATION CLASSIFICATION							
HIGHEST	DELTA "V"							
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent	
4. <u>Ø</u>]	5. <u>Ø</u> /	6. 7 2	7. <u>F</u>	8. <u>D</u>	9. <u>E</u>	10. <u>W</u>	11.# 7	
Second Hig	ghest Delta "V"							
12. <u></u> 	13. <u>5</u> 4	14. <u>Ø9</u>	15	16. <u>P</u>	17. <u> </u>	18. <u>W</u>	19. <u>Ø</u> J	
		CRUS	H PROFILE	IN CENTIME	ETERS			
	The crush proin the appr	ofile for the dam	nage described below. (ALL ME.	in the CDC(s) at ASUREMENTS	bove should be ARE IN CENTI	documented METERS.)		
HIGHEST D	DELTA "V"							
20. 	21. 			C ₄	C ₅ C	C ₆	22. ±D	
187	000	<u> </u>	\$22 q	<u> 185 4</u>	97 1:	<u> 33</u>) <u> </u>	
Second Hig	hest Delta "V"							
23. 	24. 			C. (<u>C₅</u> <u> </u>	25 	±D	
						-		
(Coded v impact is (250) 2 (998) N	med End Width when highest sev s an end plane in Code to the neare 250 centimeters o No highest severi Unknown	mpact.) rest centimeter or more	<u>/ 8 7</u>	(650) 65 (999) U	Code to the neard centimeter 550 centimeters o	or more 54 = <u>3 <i>3</i> 4</u> c	centimeters	
(250) Co	amage Width nest severity impa ode to theneares 250 centimeters of Unknown	st centimeter	40	Co ce (185) 18 (999) Ur	code to the neare entimter 85 centimeters of Inknown	est	9 9 9	

Other damage (specify):_

Unknown

(4) Cap

45. Fuel Type-1

46. Fuel Type-2

Single Fuel Type (00) No fuel tank (01) Gasoline (02) Diesel

Powered Vehicles (10) Lead Acid Battery (11) Nickel-Iron Battery (12) Nickel-Cadmium Battery (13) Sodium Metal Chloride Battery

(03) CNG (Compressed Natural Gas) (04) LPG (Liquid Petroleum Gas) also

(08) Other (Hydrogen or others) (specify):

known as Propane (05) LNG (Liquid Natural Gas) (06) Methanol (M100 or M85) (07) Ethanol (E100 or E85)

Electric Powered or Electric/Solar

(14) Sodium Sulfur Battery (18) Other (Specify):

(98) Other Hybrid (specify):

(99) Unknown fuel type

(5) Lines/pump/filter (6) Vent/emission recovery (8) Other (specify):__ (9) Unknown

(3)	Yes – <u>damage</u> to an additional tank or
	filler cap and there is fuel system leakage
	(specify the following):
	Type of tank
	Tank location
	Filler cap location
	Tank damage
	Location of leakage
	Type of fuel
(9)	Unknown if more than two tanks

cap but there is fuel system leakage

(specify leakage location):

Page 6

Filler cap Tank dam Location of Type of fu Unknown	location nage of leaka	ge		
Tank dam Location o	nage of leaka	ge		
Location of Type of fu	of leakaged lel if more	than two	tanks	
Type of fu Unknown	if more	than two	tanks	
Unknown 	if more	than two	tanks	
<u></u>				
	COM	MENT	s	
				
*			<u>.</u>	

*** STOP: IF THE CDS APPLICABLE VEHICLE WAS NOT TOWED *** (GV10=0)

DO NOT COMPLETE THE INTERIOR VEHICLE FORM.

National Highway Traffic Safety Administration	INTERIOR VE
Primary Sampling Unit Number	
2. Case Number - Stratum	51-95-SP-013
3. Vehicle Number	φ /
INTEGRITY	
Passenger Compartment Integrity (00) No integrity loss	98
Yes, Integrity Was Lost Through (01) Windshield (02) Door (side) (03) Door/hatch (back door) (04) Roof (05) Roof glass (06) Side window (07) Rear window (backlight) (08) Roof and roof glass (09) Windshield and door (side) (10) Windshield and roof (11) Side and rear window (side window and (12) Windshield and side window (13) Door and side window (98) Other combination of above (specify):	backlight)
Door, Tailgate or Hatch Opening 5. LF 3 6. RF 2 7. LR \$\display\$ 8. RR	9. TG/H
 (0) No door/gate/hatch (1) Door/gate/hatch remained closed and op (2) Door/gate/hatch came open during collisi (3) Door/gate/hatch jammed shut (8) Other (specify): 	
(9) Unknown	
Damage/Failure Associated with Door, Opening in Collision. If IV05-IV09 ± 2, T	Tailgate or Hatch hen code Ø
10. LF <u>Ø</u> 11. RF <u>9</u> 12. LR <u>Ø</u> 13. RR	₹ <u>Ø</u> 14. TG/H <u>Ø</u>
(0) No door/gate/hatch or door not opened	
Door, Tailgate or Hatch Came Open During C (1) Door operational (no damage) (2) Latch/striker failure due to damage	ollision
(3) Hinge failure due to damage (4) Door structure failure due to damage	
(4) Door structure failure due to damage(5) Door support (i.e., pillar, sill, roof side rail	
etc.) failure due to damage (6) Latch/striker and hinge failure due to dam	nage

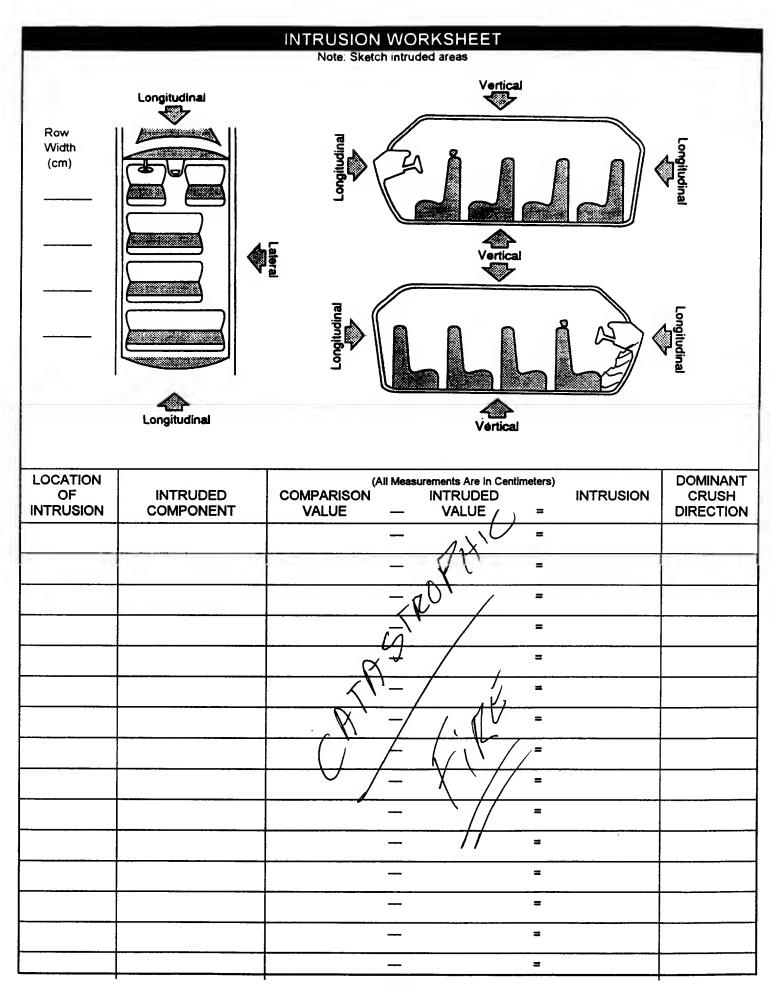
CRASHWORTHINESS DATA SYSTEM GLAZING Type of Window/Windshield Glazing 15. WS 1 16. LF 9 17. RF 9 18. LR 9 19. RR 9 20. BL 9 21. Roof ϕ 22. Other 9(0) No glazing (1) AS-1 — Laminated (2) AS-2 — Tempered (3) AS-3 — Tempered-tinted (original) (4) AS-2 — Tempered-with after market tint (5) AS-3 — Tempered-tinted (with additional after market tint) (6) AS-14 - Glass/Plastic (7) Glazing removed prior to accident (8) Other (specify): (9) Unknown Window Precrash Glazing Status 23. WS 1 24. LF 2 25. RF 2 26. LR 1 27. RR 1 28. BL / 29. Roof Ø 30. Other 2 (0) No glazing (1) Fixed (2) Closed (3) Partially opened (4) Fully opened (7) Glazing removed prior to accident (9) Unknown Glazing Damage from Impact Forces 31. WS 9 32. LF 9 33. RF 9 34. LR 9 35. RR 9 36. BL 9 37. Roof Ø 38. Other 9 (0) No glazing (1) No glazing damage from impact forces (2) Glazing in place and cracked from impact forces (3) Glazing in place and holed from impact forces (4) Glazing out-of-place (cracked or not) and not holed from impact forces (5) Glazing out-of-place and holed from impact forces (6) Glazing disintegrated from impact forces (7) Glazing removed prior to accident (9) Unknown if damaged **Glazing Damage from Occupant Contact** 39. WS 9 40. LF 9 41. RF 9 42. LR 9 43. RR 9 44. BL 9 45. Roof 46. Other 9 (0) No glazing (1) No occupant contact to glazing (2) Glazing contacted by occupant but no glazing damage (3) Glazing in place and cracked by occupant contact (4) Glazing in place and holed by occupant contact (5) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact (6) Glazing out-of-place by occupant contact and holed by occupant

contact

Glazing removed prior to accident (8) Glazing disintegrated by occupant contact (9) Unknown if contacted by occupant

(9) Unknown

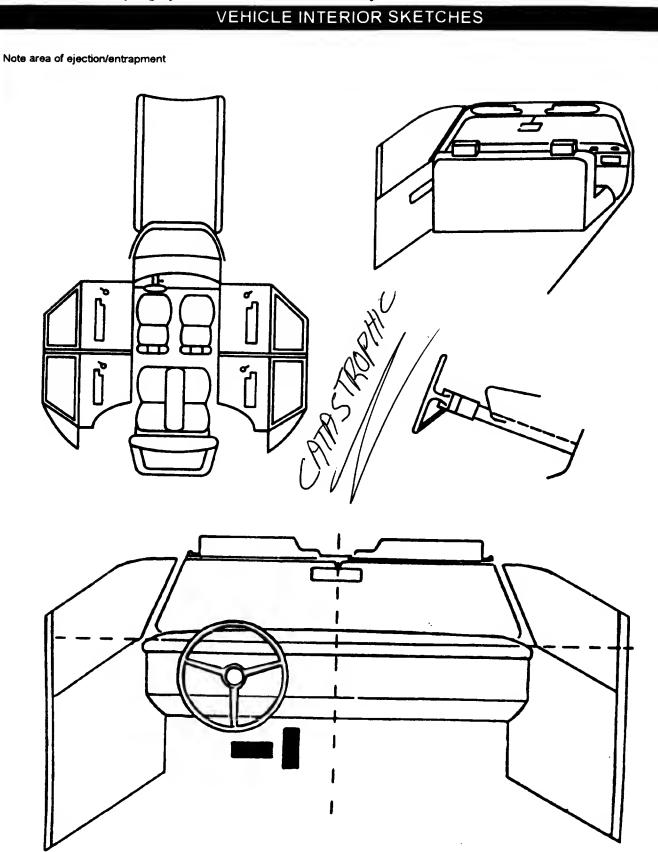
(8) Other failure (specify):



OCCUPANT AREA INTRUSION Note: If no intrusions, leave variables IV47-IV86 blank. INTRUDING COMPONENT Dominant Interior Components Magnitude Crush (01) Steering assembly Location of Intruding Intrusion Component of intrusion Direction (02) Instrument panel left (03) Instrument panel center (04) Instrument panel right (05) Toe pan 1st 47.____ 48.___ 49.___ 50.___ (06) A (A1/A2)-pillar (07) B-pillar (08) C-pillar 2nd 51.____ 52.___ 53.___ 54. (09) D-pillar (10) Side panel - forward of the A1/A2-pillar (11) Door panel (side) (12) Side panel - rear of the B-pillar 3rd 55.____ 56.___ 57.___ 58.___ (13) Roof (or convertible top) (14) Roof side rail (15) Windshield (16) Windshield header 4th 59.____ 60.___ 61.___ 62.__ (17) Window frame (18) Floor pan (includes sill) (19) Backlight header (20) Front seat back 5th 63.____ 64.___ 65.___ 66. (21) Second seat back Third seat back (22)(23) Fourth seat back (24) Fifth seat back 6th 67.____ 68.___ 69.___ 70.___ (25) Seat cushion (26) Back door/panel (e.g., tailgate) (27) Other interior component (specify): 7th 71. 72. 73. 74. Exterior Components (30) Hood (31) Outside surface of this vehicle (specify): 75.____ 76.___ 77. 78. Other exterior object in the environment (specify): 9th 79.____ 80.___ 81.___ Unknown exterior object (33)82.__ (97) Catastrophic (98) Intrusion of unlisted component(s) (specify): 10th 83.____ 84.___ 85.___ 86.__ (99) Unknown LOCATION OF INTRUSION MAGNITUDE OF INTRUSION (1) ≥ 3 centimeters but < 8 centimeters Front Seat Fourth Seat (2) ≥ 8 centimeters but < 15 centimeters (11) Left (41) Left (3) ≥ 15 centimeters but < 30 centimeters (12) Middle (42) Middle (4) ≥ 30 centimeters but < 46 centimeters (13) Right (43) Right (5) ≥ 46 centimeters but < 61 centimeters (6) ≥ 61 centimeters Second Seat (97) Catastrophic (7) Catastrophic (98) Other enclosed (21) Left (9) Unknown (22) Middle area (specify) (23) Right (99) Unknown DOMINANT CRUSH DIRECTION Third Seat (1) Vertical (31) Left (2) Longitudinal (32) Middle (3) Lateral (33) Right (7) Catastrophic (9) Unknown

(All Measurements Are in Centimeters)									
COMPARISON VALUE —	DAMAGE VALUE	=	DEFORMATION						
unk -	UNK	=	UNK,						
		=	\mathcal{O}						
	T	=	T						
	<u> </u>	=							

	INSTRUMENT PANEL
87. Steering Column Type (1) Fixed column (2) Tilt column (3) Telescoping column (4) Tilt and telescoping column (8) Other column type (specify):	92. Odometer Reading kilometers Code to the nearest 1,000 kilometers (000) No odometer (001) Less than 1,500 kilometers (500) 499,500 kilometers or more
(9) Unknown 88. Tilt Steering Column Adjustment (0) No tilt steering column (1) Full up (2) Between full up and center (3) Center (4) Between center and full down (5) Full down (9) Unknown	(999) Unknown ——————————————————————————————————
89. Telescoping Steering Column Adjustment (0) No telescoping steering column (1) Full back (2) Between full back and midpoint (3) Midpoint (4) Between midpoint and full forward (5) Full forward (9) Unknown	(1) Padded (2) Rigid plastic (8) Other (specify): (9) Unknown 95. Knee Bolsters Deformed from Occupant Contact? (0) No knee bolster (1) No deformation (2) Yes - deformation (9) Unknown
90. Steering Rim/Spoke Deformation Code actual measured deformation to the nearest centimeter (00) No steering rim deformation (01-14) Actual measured value in centimeters (15) 15 centimeters or more (98) Observed deformation cannot be measured (99) Unknown	96. Did Glove Compartment Door Open During Collision(s)? (0) No glove compartment door (1) No - door did not open (2) Yes - door opened (9) Unknown 97. Adaptive (Assistive) Driving Equipment
91. Location of Steering Rim/Spoke Deformation (00) No steering rim deformation Quarter Sections (01) Section A (02) Section B (03) Section C (04) Section D Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke (08) Right half of rim/spoke (09) Complete steering wheel collapse (10) Undetermined location (99) Unknown	(0) No adaptive driving equipment (1) Adaptive driving equipment installed (Check all that apply.) [] Hand controls for braking/acceleration [] Steering control devices (attached to OEM steering wheel [] Steering knob attached to steering wheel [] Low effort power steering (unit or device) [] Replacement steering wheel (i.e., reduced diameter) [] Joy-stick steering controls [] Wheelchair tie-downs [] Modification to seat belts (specify): [] Additional or relocated switches (specify): [] Raised roof [] Wall-mounted head rest (used behind wheelchair) [] Other adaptive device (specify): (9) Unknown



Sketch windshield contact(s) and the damaged area(s) on the instrument panel outline (e.g., radio, glove compartment, damage to instrument panel structure.

Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.

Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Coritact page.

			JOIN	IIS OF OC	CUPA	NT CONTACT		
Contact	Interior Component Contacted	Occup No.	lf	Body Region If Known		Supporting Physical	Evidence	Confidence Level of Contact Point
Α								14.
В								
С								-
D			·					
E			····					-
F			-					
	-	.						
					/			
<u> </u>				/				
 								
J								
K								
L								
М								
N								
(006) Steering wo of codes 0 of codes 0 of codes 0 selector les attachmen (008) Cellular tel (009) Add on equipaledeck, (010) Left instrumbelow (011) Center insibelow (012) Right instrument below (013) Glove com (014) Knee bolst (015) Windshield more of the header, A instrument steering as only) (016) Windshield more of the header, A instrument (passenge (017) Windshield exterior objection of the code of the header, A instrument (passenge (017) Windshield exterior objection of the code of the header, A instrument (passenge (017) Windshield exterior objection of the code of the code of the header of the code of	theel rim theel hub/spoke theel (combination 04 and 005) olumn,transmission wer, other t lephone or CB radio uipment(e.g., air conditioner) ment panel and trument panel and ument panel and ument panel and ument panel, mirror, or sembly (driver side d including one or e following: front (A1/A2)-pillar, panel, mirror, or sombly (driver side d including one or e following: front (A1/A2)-pillar, panel, or mirror r side only)	(052) L (053) L (054) L (055) C (056) L (057) L (058) L (059) L (060) C (101) R (102) R (103) R (104) R (105) C (106) R (107) R (108) R (109) R	eff side xxcluding armrests eff side eff A (A eff B-pil Other leff side eff side eff side eff side eff side ceff side c	hardware or armrest 1/A2)-pillar llar t pillar (specify): window glass window frame window glass one or more of the : frame, window sill,)-pillar, B-pillar, or rail. t side object : e interior surface, g hardware or ie hardware or A1/A2)-pillar	(152) (153) (154) (155) (160) (161) (162) (163) AIR B (170) (175) (180) (185) (190) (195) ROOF (201) (202) (203) (204)	Seat, back support Belt restraint webbing/buckle Belt restraint B-pillar or door frame attachment point Other restraint system component (specify): Head restraint system Other occupants (specify): Interior loose objects Child safety seat (specify): Other interior object (specify): AG Air bag-driver side Air bag compartment cover-driver side Air bag compartment cover-passenger side Other air bag (specify) Other air bag compartment cover (specify) Front header Rear header Reof left side rail Roof right side rail Roof or convertible top	ADAPTIVE (ASSISTEQUIPMENT) (401) Hand control braking/acce (402) Steering core (attached towheel) (403) Steering knowsteering wheel (405) Replacemer (i.e., reduced (406) Joy stick stee (407) Wheelchair	prage rack, bject (specify): FIVE) DRIVING Is for eleration atrol devices OEM steering be attached to elet steering wheel d diameter) ering controls tie-downs to seat belts, Felocated becify): end head rest (used el chair)

		M	ANUAL RESTR	AINTS		
NOTES	Encode the applicable data for a systems should be assessed du	each sear	t position in the vehicle. ehicle inspection then co	The attribute fo	for the variable cupant Assess	may be found below. Restrait
	If a Child safety seat is present,	encode th	ne data on the back of th	is page.		
	if the vehicle has automatic rest				he back of the	previous page
	in the female had automate rest	I ama	Left Left	Cen		Right
	Availabilib	_	Loit		itei	Tight
F	Availability					
'n	Evidence of usage					
Ŕ	Used in this crash?					
<u>s</u>	Proper Use					
T	Failure Modes					
	Anchorage Adjustment					
	Availability		<u> </u>			
s	Evidence of usage		111			
OZOOE0	Used in this crash?		' M'	/ 1/		
S	Proper Use	T		17		
Ň	Failure Modes	1	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	- (\		
D	Anchorage Adjustment		\\//			
	Availability		/ { 		/	
			/V			
O T	Evidence of usage		· · · · · · · · · · · · · · · · · · ·			
HER	Used in this crash?	_		\longleftarrow		
	Proper Use					
	Failure Modes					
	Anchorage Adjustment					
(1) (2) (3) (4) (5) /nteg (6)	None available Belt removed/destroyed Shoulder belt Lap belt Lap and shoulder belt Belt available - type unknown ral Belt Partially Destroyed Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed)	(0) (1) (2) Belt (3) (4) (5) (6) (7)	None used or not available Belt used properly Belt used properly with curved Improperly Shoulder belt worn under Shoulder belt worn behind Belt worn around more that belt worn on abdome Lap belt or lap and should improperly with child safe (specify):	r arm ad back or seat han one person en der belt used	(1) No up shoul Adjus Anch (2) In full (3) In mic (4) In full (5) Positi	noulder belt oper anchorage adjustment for der belt stable shoulder Belt Upper
	Other belt (specify):	(8)	Other improper use of m	anual belt	` '	anchorage adjustment
(9)	Unknown		system (specify):			
Manual	(Active) Belt System Use	(9)	Unknown			
(00)	None used, not available, or belt					
, ,	removed/destroyed	Manual ((Active) Belt Failure Mode	s During		
(01)	inoperable (specify):	Accident (0)	t No manual belt used or n	ot available		
(02)	Shoulder belt	(1)	No manual belt failure(s)			
(03)	Lap belt	(2)	Tom webbing (stretched	webbing not		
(04) (05)	Lap and shoulder belt Belt used - type unknown	/2\	included)	**		
(03)	Other belt used (specify):	(3) (4)	Broken buckle or latchpla Upper anchorage separa			
(12)	Shoulder belt used with child safety	(5)	Other anchorage separat (specify):			
(4.3)	seat	/A\	Proken			
(13) (14)	Lap belt used with child safety seat Lap and shoulder belt used with child	(6) (7)	Broken retractor Combination of above (sp	pecify):		
(15)	safety seat Belt used with child safety seat - type, unknown	(8)	Other manual belt failure	(specify):		
(18)	Other belt used with child safety seat (specify):	(9)	Unknown			
(99)	Unknown if belt used					

AUTOMATIC RESTRAINTS

NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

AIR BAGS

		Left Front	Right Front	Other
F	Availability/Function	1/	1	4
Ŕ	Deployment	Ф	Δ	ψ
T	Failure			/

Air Bag System Availability/Function

- (0) Not equipped/not available
- (1) Air bag

Non-functional

- (2) Air bag disconnected (specify):
- (3) Air bag not reinstalled
- (9) Unknown

Are There Indications of Air Bag System Failure? (This Occupant Position)

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (9) Unknown

Frontal Air Bag System Deployment (This Occupant Position)

- (0) Not equipped/not available
- (1) Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, accident sequence undetermined
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- (9) Unknown

Afr Bag(s) Deployment, <u>Other</u> Than First Seat Frontal (This Occupant Position)

- (0) Not equipped with an "other" air bag
- (1) Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, details unknown
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- 9) Unknown

AUTOMATIC BELTS

	1.0	Left	Right
	Availability/Function		. /
F	Use	1/	A
Ŕ [Туре	1)	Ψ
ST	Proper Use	, 4	
	Failure Modes		

Automatic (Passive) Belt System Availability/Function

- (0) Not equipped/not available
- (1) 2 point automatic belts
- (2) 3 point automatic belts
- (3) Automatic belts type unknown

Non-functional

- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

Automatic (Passive) Belt System Use

- (0) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown
- (9) Unknown

Automatic (Passive) Belt System Type

- (0) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system
- (9) Unknown

Proper Use of Automatic (Passive) Belt System

- (0) Not equipped/not available/not used
- (1) Automatic belt used properly
- (2) Automatic belt used properly with child safety seat

Automatic Belt Used Improperty

- (3) Automatic shoulder belt worn under arm
- (4) Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or

automatic shoulder belt used improperly

with child safety seat (specify):

- (8) Other improper use of automatic belt system (specify):
- (9) Unknown

Automatic (Passive) Belt Failure Modes During Accident

- (0) Not equipped/not available/not in use
- (1) No automatic belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other automatic belt failure (specify):
- (9) Unknown

FIRST SEAT FRONTAL AIR BAGS

NOTES. Encode the applicable data for the driver and first seat passenger in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

	Driver	Passenger
Type of air bag?		
Flaps open at tear points?		7
Flaps damaged?	, , , , , , , , , , , , , , , , , , , ,	
Air bag damaged?		
Source of air bag damage	Ψ	Ψ
Air bag tethered?		
Air bag have vent ports?		
Other occupant contact air bag?		
Occupant wearing eyewear?	/	

Type of Air Bag

- (0) Not equipped/not available
- (1) Original manufacturer installed system
- (2) Retrofitted air bag
- (3) Replacement air bag
- (8) Unknown type of air bag
- (9) Unknown

Did Air Bag Module Cover Flap(s) Open At Designated Tear Points?

- (0) Not equipped/not available
- (1) No
- (2) Yes
- (3) Deployed, unknown if flap(s) opened at designated tear points
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Were Air Bag Module Cover Flap(s) Damaged?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if air bag module cover flap(s) damaged
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Was There Darnage To The Air Bag?

- (00) Not equipped/not available
- (01) Not damaged

Yes - Air Bag Damage

- (02) Ruptured
- (03) Cut
- (04) Torn
- (05) Holed
- (06) Burned
- (07) Abraded
- (88) Other damage (specify):
- (95) Damaged, details unknown
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

Source of Air Bag Damage

- (00) Not equipped/not available
- (01) Not damaged
- (02) Object worn by occupant, (specify):
- (03) Object carried by occupant, (specify):
- (04) Adaptive/assistive controls, (specify):
- (05) Fire in vehicle
- (06) Thermal burns
- (07) Rescue or emergency efforts
- (88) Other damage source (specify):
- (95) Damaged, unknown source
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

Was The Air Bag Tethered?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of tether straps):
- 3) Deployed, unknown if tethered
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Did The Air Bag Have Vent Ports?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of vent ports):
- (3) Deployed, unknown if vent ports present
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Was the Air Bag in this Occupant's Position Contacted by Another Occupant?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if other occupant contact to air bag
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Was This Occupant Wearing Eye-wear?

- (0) Not equipped/not available
- (1) No
- (2) Eyeglasses/sunglasses
- (3) Contact lenses
- (4) Deployed, unknown if eyewear worn
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

HEAD RESTRAINTS/SEAT EVALUATION

Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found NOTES: at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
	Head Restraint Type/Damage			
F	Seat Type			
1	Seat Performance			
R S	Seat Orientation			
Ť	Seat Track Position			
	Seat Back Incline Pre/Post Impact	.1		
	Head Restraint Type/Damage		W	
S	Seat Type	11/		···
S E C	Seat Performance	111		
0	Seat Orientation	\mathcal{M}		
N D	Seat Track Position			
,	Seat Back Incline Pre/Post Impact			
	Head Restraint Type/Damage		/1//	
Т	Seat Type		1/1/	
H	Seat Performance			
Ŕ	Seat Orientation			
D	Seat Track Position			
	Seat Back Incline Pre/Post Impact			
	Head Restraint Type/Damage			
ō	Seat Type			
H ·	Seat Performance			
E R	Seat Orientation			
	Seat Track Position			
ſ	Seat Back Incline Pre/Post Impact			

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

HEAD RESTRAINTS/SEAT EVALUATION

Head Restraint Type/Damage by Occupant at This Occupant **Position**

- (0) No head restraints
- Integral no damage
- Integral damaged during accident
- (3) Adjustable no damage(4) Adjustable damaged during accident

Seat Type (this Occupant Position)

Bucket with folding back

Bench with separate back

Bench with folding back(s)

Pedestal (i.e., column

Other seat type (specify):

Box mounted seat (i.e., van

Split bench with separate back

Split bench with folding back(s)

Occupant not seated or no seat

- (5) Add-on no damage(6) Add-on damaged during accident
- (8) Other Specify):
- (9) Unknown

Bucket

Bench

cushions

cushions

supported)

type)

Unknown

(00)

(01)

(02)

(03)

(04)

(06)

(80)

(09)

(10)

(99)

Seat Performance (this Occupant Position)

- Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3)Seat back folding locks or "seat back" failed (specify):
- Seat tracks/anchors failed
- Deformed by impact of occupant
- Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

- Forward facing seat
- Rear facing seat

- (9) Unknown

Seat Orientation (this Occupant Position)

- (0) Occupant not seated or no seat
- 3) Side facing seat (inward)
- Side facing seat (outward)
- (8) Other (specify):

Seat Track Adjusted Position Prior To Impact

- (0) Occupant not seated or no seat
- (1) Non-adjustable seat track

Adjustable Seat Track

- (2) Seat at forward most track positi(3) Seat between forward most and Seat at forward most track position
- middle track positions
- Seat at middle track position
- (5) Seat between middle and rear most track positions
- Seat at rear most track position
- (9) Unknown

Seat Back Inciine Prior and Post impact

- (00)Occupant not seated or no seat
- (01) Not adjustable

Upright prior to impact

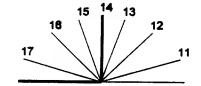
- Moved to completely rearward (11)position
- Moved to rearward midrange (12)position
- (13)Moved to slightly rearward position
- (14)Retained pre-impact position
- (15) Moved to slightly forward position
- (16)Moved to forward midrange position
- Moved to completely forward (17)position

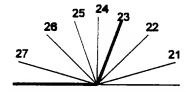
Slightly reclined prior to impact

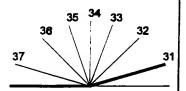
- Moved to completely rearward (21)position
- (22)Moved to rearward midrange position
- (23) Retained pre-impact postion
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- Moved to completely forward (27)position

Completely reclined prior to impact

- Retained pre-impact position
- Moved to rearward midrange position
- (33)Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36)Moved to forward midrange position
- (37)Moved to completely forward position
- Unknown (99)







Coding diagrams for Seat Back Incline Position Prior and Post Impact

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

	BEST AVAILABLE
CHILD SAFE	TY SEAT FIELD ASSESSMENT
When a child safety seat is present enter the	occupant's number in the first row and complete the column below the
Occupant Number	
Type of Child Safety Seat	
2. Child Safety Seat Orientation	
3. Child Safety Seat Harness Usage	
Child Safety Seat Shield Usage	
5. Child Safety Seat Tether Usage	
6. Child Safety Seat Make/Model	Specify Below for Each Child Safety Seat
(0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used 2. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed for Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (13) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight	4. Child Safety Seat Tether Usage Note: Options Below Are Used for Variables 3-5. (00) No child safety seat Not Designed with Harness/Shield/Tether (01) After market harness/shield/tether added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market harness/shield/tether added (09) Unknown if harness/shield/tether added or used Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used (19) Unknown if harness/shield/tether used Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used (99) Unknown if child safety seat used
(21) Rear facing (22) Forward facing (28) Other orientation (specify):	
(29) Unknown orientation	

(99) Unknown if child safety seat used

lational Accident Sampling System		ENTRAPME				Page
Complete the following if the researchicle. Code the appropriate data	rcher has any ind on the Occupant	ication that an o	ccupant wa m.	s either ejecte	ed from or entrap	ped in t
Describe indications of ejection and	body parts involve	ed in partial eject	tion(s):			
Occupant Number						
Ejection						
(Note on Vehicle Interior Sketch) Ejection Area						
Ejection Medium						
Medium Status						
jection (1) Complete ejection (2) Partial ejection		(7) Roof (8) Other area (e.g., back of pickup, etc.) (specify):		(5) Integral structure (8) Other medium (specify):		
(3) Ejection, Unknown degree (9) Unknown	(9) Unknown			(9) Unknown Medium Status (Immediately Prior		

Ejection Area

- (1) Windshield
- (2) Left front
- (3) Right front
- (4) Left rear
- (5) Right rear
- (6) Rear

Ejection Medium

- (1) Door/hatch/tailgate(2) Nonfixed roof structure
- (3) Fixed glazing(4) Nonfixed glazing (specify):

to Impact)

- (1) Open
- (2) Closed
- (3) Integral structure (9) Unknown

ENTRAPMENT	No [] Yes []		
Describe entrapme	nt mechanism:		
·			
		·	
			
<u> </u>			
Component(s):			
(Note in vehicle inte	nor dlagram)		



National Highway Traffic Safety Administration	NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM CRASHWORTHINEST DATA CRASHWORTHINESS DATA SYSTEM CRASHWORTHINEST DATA CRA
Primary Sampling Unit Number	OCCUPANT'S SEATING
2. Case Number - Stratum DS/-95-SP-0/3 3. Vehicle Number	Front Seat (11) Left side
4. Occupant Number OCCUPANT'S CHARACTERISTICS	(12) Middle (13) Right side (14) Other (specify):
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown 6. Occupant's Sex	(15) On or in the lap of another occupant Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant Third Seat
(1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown	(31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknowninches X 2.54 =centimeters	(44) Other (specify):(45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify):(99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown	11. Occupant's Posture (0) Normal posture
pounds X .4536 =kilograms 9. Occupant's Role (1) Driver (2) Passenger (9) Unknown	Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown
	1

EJECTION/E	NTRAPMENT
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown 14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify):

	BELT SY	STEN	M FUNCTION
(((Manual (Active) Belt System Availability 0) None available 1) Belt removed/destroyed 2) Shoulder belt 3) Lap belt 4) Lap and shoulder belt 5) Belt available—type unknown	9	22. Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt (1) No upper anchorage adjustment for shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position
((19. M ((((((ntegral Belt Partially Destroyed Shoulder belt (lap belt destroyed/removed) Chap belt (shoulder belt destroyed/removed) Chap belt (specify): Unknown Manual (Active) Belt System Use On None used, not available, or belt removed/destroyed Inoperative (specify): Shoulder belt Lap belt Lap and shoulder belt Belt used—type unknown Other belt used (specify):	9	(4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment 23. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown 24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use
20. F ((((((((((((((((((Shoulder belt used with child safety seat Lap belt used with child safety seat Lap and shoulder belt used with child safety seat Belt used with child safety seat—type unknown Other belt used with child safety seat (specify): Unknown if belt used Proper Use of Manual (Active) Belts None used or not available Belt used properly Belt used properly with child safety seat Shoulder belt worn under arm Shoulder belt worn behind back or seat Belt worn around more than one person Lap belt worn on abdomen Lap belt or lap and shoulder belt used improperly with child safety seat (specify): Other improper use of manual belt system	9	(2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown 25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown 26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly (2) Automatic belt used properly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn
21. M ((((((((((((((((((((specify): 2) Unknown Manual (Active) Belt Failure Modes During Accident D) No manual belt used or not available 1) No manual belt failure(s) 2) Torn webbing (stretched webbing not included) 3) Broken buckle or latchplate 4) Upper anchorage separated 5) Other anchorage separated (specify): 6) Broken retractor 7) Combination of above (specify): 3) Other manual belt failure (specify):	9	on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown 27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):
			(9) Unknown

POLICE RE	EPORTED RESTRAINT USE		A	IR BAG SYSTEM FUNCTION
(2) Shouldel (3) Lap belt (4) Lap and (5) Belt used (6) Child saf (7) Automati	ed d not indicate belt use belt shoulder belt t, type not specified ety seat	30.	Avail (This Posit (0) (1) Non- (2)	tal Air Bag System ability/Function Occupant ion) Not equipped/not available Air bag functional Air bag disconnected (specify): Air bag not reinstalled Unknown
29. Police Reporte (0) No air ba (1) Police die (2) Deployee (3) Not deple (4) Unknowr		31.	(This (0) (1) (2) (3) (4) (5) (7)	tal Air Bag System Deployment Occupant Position) Not equipped/not available Deployed during accident (as a result of impact) Deployed inadvertently just prior to accident Deployed, details unknown Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) Unknown if deployed Nondeployed Unknown
Use. [] Not equipor render [] Vehicle in [] Official in [] Driver/oc [] Other (sp	jury data cupant interview	33.	Availa (This Positi (0) (1) Non-(2) (3) (9) Specify	ability/Function Occupant ion) Not equipped/not available Air bag functional Air bag disconnected (specify): Air bag not reinstalled Unknown by type of "other" air bag present: ag(s) Deployment, Other Than First Frontal (This Occupant Position)
		34.	(0) (1) (2) (3) (4) (5) (7) (9) Are T Failur (This (0) (1)	Not equipped with an "other" air bag Deployed during accident (as a result of impact) Deployed inadvertently just prior to accident Deployed, details unknown Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) Unknown if deployed Nondeployed Unknown There Indications of Air Bag System re? Occupant Position) Not equipped/not available No
				Yes (specify): Unknown

FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
35. Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (-000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (-996) Deployment, unknown longitudinal Delta V (-997) Not deployed (-998) Unknown if deployed (-999) Unknown
36. Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed (9) Unknown
37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown	42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed (8) Unknown if deployed
38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	(9) Unknown 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued HEAD RESTRAINT AND SEAT EVALUATION 49. Head Restraint Type/Damage by Occupant 44 Source of Air Bag Damage at This Occupant Position (00) Not equipped/not available No head restraints (01) Not damaged Integral—no damage (1) (02) Object worn by occupant, (specify): Integral—damaged during accident (2) (3) Adjustable—no damage (03) Object carned by occupant, (specify): (4) Adjustable—damaged during accident (5) Add-on-no damage (04) Adaptive/assistive controls, (specify): (6) Add-on—damaged during accident (8) Other (specify): (05) Fire in vehicle (06) Thermal burns (9) Unknown (07) Rescue or emergency efforts (88) Other damage source (specify): 50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (95) Damaged, unknown source (01) Bucket (96) Deployed, unknown if damaged (02) Bucket with folding back (97) Not deployed (03) Bench (98) Unknown if deployed (04) Bench with separate back cushions (99) Unknown (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s)(08) Pedestal (i.e., column supported) 45. Was The Air Bag Tethered? (0) Not equipped/not available (09) Box mounted seat (i.e., van type) (1) No (10) Other seat type (specify): (2) Yes (specify number of tether straps): (99) Unknown (3) Deployed, unknown if tethered (7) Not deployed 51. Seat Orientation (this Occupant Position) (8) Unknown if deployed (0) Occupant not seated or no seat (9) Unknown (1) Forward facing seat 46. Did The Air Bag Have Vent Ports? (2) Rear facing seat (0) Not equipped/not available (3) Side facing seat (inward) (1) No (4) Side facing seat (outward) (2) Yes (specify number of vent ports): (8) Other (specify): (3) Deployed, unknown if vent ports present (9) Unknown (7) Not deployed (8) Unknown if deployed 52. Seat Track Adjusted Position Prior To Impact (9) Unknown (0) Occupant not seated or no seat (1) Non-adjustable seat track 47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? Adjustable Seat Track (0) Not equipped/not available (2) Seat at forward most track position (1) No (3) Seat between forward most and middle track (2) Yes (specify): positions (4) Seat at middle track position (3) Deployed, unknown if other occupant contact to (5) Seat between middle and rear most track air bag positions (7) Not deployed (6) Seat at rear most track position (8) Unknown if deployed (9) Unknown (9) Unknown 48. Was This Occupant Wearing Eve-wear? (0) Not equipped/not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown

HEAD RESTRAINT AND SEAT EVALUATION continued

53. Seat Back Incline Prior and Post I	: Impact
--	----------

- (00) Occupant not seated or no seat
- (01) Not adjustable

Upright prior to impact

- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

Slightly reclined prior to impact

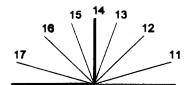
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

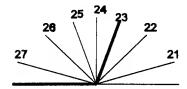
Completely reclined prior to impact

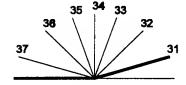
- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown

54. Seat Performance (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed (specify):
- (4) Seat track/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion, (specify):
- (7) Combination of above (specify):
- (8) Other (specify): _
- (9) Unknown







CHILD SAFETY SEAT 55. Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat used 56. Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used 57. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used

- 58. Child Safety Seat Harness Usage
- 59. Child Safety Seat Shield Usage

60. Child Safety Seat Tether Usage

Note: Options below applicable to Variables OA58-OA60.

(00) No child safety seat

Not Designed With Harness/Shield/Tether

- (01) After market harness/shield/tether added, not used
- (02) After market harness/shield/tether used
- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used

Designed With Harness/Shield/Tether

- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

Unknown If Designed With Harness/Shield/Tether

- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used
- (99) Unknown if child safety seat used

61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown 62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown	3	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown 64. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown 65. Working Days Lost Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
99. Case Occupant (0) Not the Case Occupant (1) This is the Case Occupant (2) This is the Case Occupant in another case.		

STOP WORK HERE

VARIABLES 66-74

TO BE CODED BY THE ZONE CENTER

TO BE CODED BY THE ZONE CENTER

INJURY CONSEQUENCES	TRAUMA DATA
66. Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67. 1st Medically Reported Cause of Death	72. Was the Occupant Given Blood? (1) No - blood not given
68. 2nd Medically Reported Cause of Death	(2) Yes - blood given (specify units): (9) Unknown if blood given
69. 3rd Medically Reported Cause of DeathCode the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):	73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
(97) Other result (includes fatal ruled disease) (specify):	BELT USE DETERMINATION
(99) Unknown 70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify):

BEST AVAILABLE

Form Approved

O.M.B. No. 2127-00
NATIONAL ACCIDENT SAMPLING SYSTE
CRASHWORTHINESS DATA SYSTE

OCCUPANT INJURY FORM

National Highway Traffic Safety Administration

1. Primary Sampling Unit Number

2. Case Number - Stratum <u>DS/ -95 - 5P - Ø/3</u>

3. Vehicle Number

\$1

4. Occupant Number

\$ |

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

		A.I.S 90					Injury	Occupant				
	Source of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Area Intrusion Number	ICD-9
st	5. A	6. 1	7 <u>6</u>	• <u>Ø</u> 8	. <u>ø</u> Z	10. <u>Z</u>	11. Ø 12	<u>697</u>	13. 9	14.7	15. <u>6</u> 5	<u> 35\$.5</u>
nd	16. Z	17.9	18	19. <u>9</u> Z	20. <u>Ø</u> Z	21.2	22. <u>P</u> 23	601	<u> 24. /</u>	25. <u>3</u>	26. <u>Ø Ø</u>	986
d	27	28	.29	30	31:	32	3334	1, 10 1, 10	35	36	37	
h	38	39	40	41	42	43	4445	-	46	47	48	
h	49	50	51	52:	53	54	55:56		57	58	59	1 1/2 1/2 1 1/4
h	60	61	62	63	64	65	6667 .		68	69	70	
h	71	72	73	74. 4.,a.(4)	75.	76	7778.			80	81.	<u> </u>
h	82	83	84	85	86	87.	8889.		90	91	92	
ħ	93	94	95	96	97	98	99100	1 (1 m) (1 m	_ 101	102	103	
)th	104	105	106	107	108.	109	110. 111		112	113.	114.	

OCCUPANT INJURY CLASSIFICATION

Body Region

- Head
- Face
- Neck
- Thorax
- (2) (3) (4) (5) (6) Abdomen
- Spine
- (7) Upper Extremity
- (8) (9) Lower Extremity
- Unspecified

Type of Anatomic Structure

- Whole Area
- Vessels
- (1) (2) (3) Nerves
- Organs (includes Muscles/ligaments)
- (5) Skeletal (includes ioints)
- Head LOC (6)
- (9) Skin

Specific Anatomic Structure

Vessels, Nerves, Organs. Bones, Joints are assigned consecutive two digit numbers beginning with 02.

The exceptions to this rule apply to:

Whole Area

- (02) Skin Abrasion
- (04) Skin - Contusion
- Skin Laceration (06)
- (08) Skin - Avulsion
- **Amputation** (10)
- (20)Burn
- (30) Crush
- (40) Degloving
- Injury NFS (50)
- (90)Trauma, other than mechanical

Head - LOC

- (02) Length of LOC
- (04) Level
- (06)of
- Consciousness (80)
- (10) Concussion

<u>Spine</u>

- Cervical (02)
- (04)Thoracic
- (06)Lumbar

Level of Injury

Specific injuries are assigned consecutive two-digit numbers beginning with 02.

To the extent possible, within the organizational framework of the AIS, 00 is assigned to an injury NFS as to severity or where only one injury is given in the dictionary for that anatomic structure. 99 is assigned to any injury NFS as to lesion or severity.

Abbreviated Injury Scale

- Minor Injury
- (2) (3) Moderate Injury
- Serious Injury Severe Injury
- Critical Injury
- (4) (5) (6) Maximum
- (untreatable) Injured, unknown
- severity

Aspect

- Right
- Left (3) Bilateral
- Central
- Anterior
- (4) (5) (6) (7) **Posterior**
- Superior
- (8) Inferior
- (9) Unknown
- Whole region

SOURCE OF INJURY DATA

OFFICIAL RECORDS

- (1) Autopsy records with or without hospital/medical records
- (2) Hospital/medical records other than emergency room (e.g., discharge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- (4) Private physician, walk-in or emergency clinic

UNOFFICIAL RECORDS

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) Other source (specify):
- (9) Police

DIRECT/INDIRECT INJURY

CONFIDENCE LEVEL

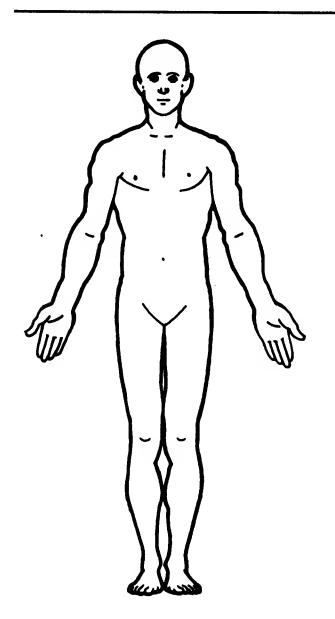
INJURY SOURCE

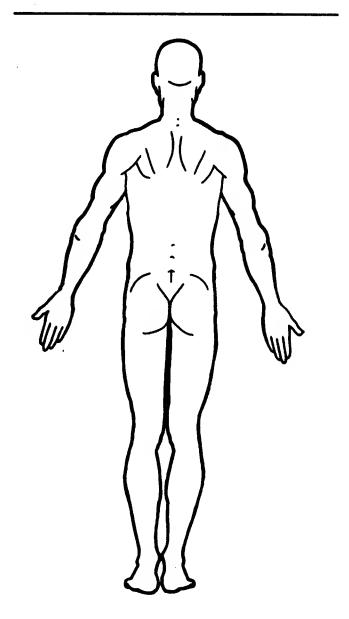
- (1) Certain
- (2) Probable
- (3) Possible
- (9) Unknown

- Direct contact injury
- (2)Indirect contact injury
- Noncontact injury
- Injured, unknown source

INJURY SOURCES (102) Right side hardware or (183) Air bag-passenger side and (411) Wall mounted head rest (used FRONT (001) Windshield armrest object held behind wheel chair) (103)(412) Other adaptive device (002) Mirror Right A (A1/A2)-pillar Air bag-passenger side and Right B-pillar (104)(003) Sunvisor object in mouth (specify):_ Steering wheel rim Other right pillar (specify): (185) Air bag compartment (004)(105) (005)Steering wheel hub/spoke cover-passenger side EXTERIOR of OCCUPANT'S (006)Steering wheel (combination (106)Right side window glass (186) Air bag compartment VEHICLE Right side window frame of codes 004 and 005) (107)cover-passenger side and Right side window sill (451) Hood (007) Steering column, transmission (108)evewear (109) Right side window glass (187) Air bag compartment (452) Outside hardware (e.g., selector lever, other attachment including one or more of the cover-passenger side and outside mirror, antenna) (008) Cellular telephone or CB radio following: frame, window sill, jewelry (453) Other exterior surface or tires (009) Add on equipment (e.g., tape A (A1/A2)-pillar, B-pillar, or (188)Air bag compartment (specify): deck, air conditioner) roof side rail. cover-passenger side and (010) (110) Other right side object object held (454) Unknown exterior objects Left instrument panel and (specify): (189) Air bag compartment below EXTERIOR OF OTHER MOTOR (011) Center instrument panel and cover-passenger side and object in mouth VEHICLE below (012) Right instrument panel and INTERIOR (190) Other air bag (specify) (501) Front bumper helow (151) Seat, back support (502)Hood edge (013) Glove compartment door (152) Belt restraint webbing/buckle (195)Other air bag compartment Other front of vehicle (503)(014) Knee bolster (153) Belt restraint B-piltar or door cover (specify) (specify): (015) Windshield including one or frame attachment point more of the following: front Other restraint system (504)Hood (505) header, A (A1/A2)-pillar, component (specify): ROOF Hood omament (506) Windshield, roof rail, A-piltar (201) Front header instrument panel, mirror, or Rear header (507) Side surface Head restraint system (202) steering assembly (driver side (155)(203) only) (160) Other occupants (specify): Roof left side rail (508)Side mirrors (016) Windshield including one or (204)Roof right side rail (509)Other side protrusions Interior loose objects (205)Roof or convertible top (specify): more of the following: front header, A (A1/A2)-pillar, (162)Child safety seat (specify): **FLOOR** (510)Rear surface instrument panel, or mirror Undercarriage (163) Other interior object (specify): (251) Floor (including toe pan) (511) (passenger side only) (017) Windshield reinforced by (252) Floor or console mounted (512) Tires and wheels exterior object (specify) transmission lever, including (513) Other exterior of other motor AIR BAG vehicle (specify): (019) Other front object (specify): (170) Air bag-driver side (253) Parking brake handle (171) Air bag-driver side and (514) Unknown exterior of other (254) Foot controls including parking brake motor vehicle evewear LEFT SIDE (172) Air bag-driver side and jewelry OTHER VEHICLE OR OBJECT IN (051) Left side interior surface, (173) Air bag-driver side and object REAR THE ENVIRONMENT excluding hardware or held (301) Backlight (rear window) armrests (174) Air bag-driver side and object Backlight storage rack, (551) Ground (302)(052)Left side hardware or armrest in mouth door, etc. (598)Other vehicle or object Left A (A1/A2)-pillar (053)(175) Air bag compartment (303)Other rear object (specify): (specify): (054)Left B-pillar cover-driver side Other left pillar (specify): (055)(176) Air bag compartment (599) Unknown vehicle or object cover-driver side and eyewear ADAPTIVE (ASSISTIVE) DRIVING (056) Left side window glass (177) Air bag compartment **EQUIPMENT** NONCONTACT INJURY (057) Left side window frame cover-driver side and jewelry (401) Hand controls for (601) Fire in vehicle (058) Left side window sill (178) Air bag compartment braking/acceleration (602) Flying glass (059) Left side window glass cover-driver side and object (402) Steering control devices (603)Other noncontact injury including one or more of the held (attached to OEM steering source following: frame, window sill, (179) Air bag compartment wheel) (specify): A (A1/A2)-pillar, B-pillar, or (403) cover-driver side and object in Steering knob attached to (604) Air bag exhaust gases roof side rail. steering wheel (697) Injured, unknown source (060)Other left side object (180) Air bag-passenger side (405) Replacement steering wheel (specify): (181) Air bag-passenger side and (i.e., reduced diameter) (406)Joy stick steering controls (182) Air bag-passenger side and Wheelchair tie-downs (407) RIGHT SIDE (408) Modification to seat belts, jewelry (101) Right side interior surface, (specify): excluding hardware or Additional or relocated armrests switches, (specify): (410) Raised roof

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)

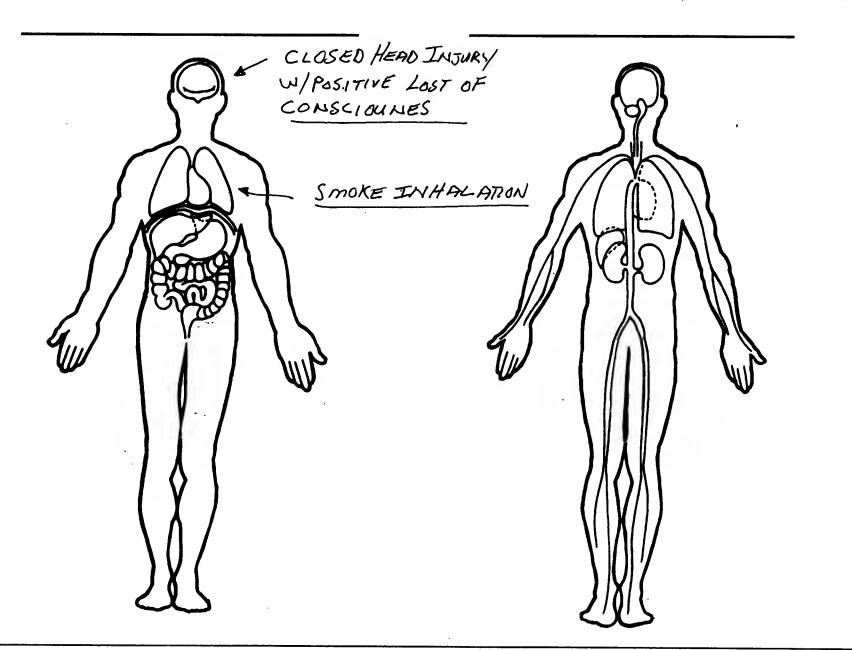




OFFICIAL INJURY DATA — SKELETAL INJURIES						
,	ndicate the Location, Specific Anatomic Structure, Detail (size, depth, fract ource of all injuries indicated by official sources (or from PAR or other uno navailable.)	ure type, head injury clinical signs and neurological deficits), and fficial sources if medical records and interviewee data are				
Blood Alcohol Leve (mg/dl) BAL =	(6 ₀ d)					
Glasgow Coma Scale Score GCSS =						
Units of Blood Given Units =						
PCO ₂						
HCO ₃						

OFFICIAL INJURY DATA —INTERNAL INJURIES

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





National Highway Traffic Safety Administration	NATIONAL ACCIDENT SAMPLING SYSTE CRASHWORTHINESS DATA SYSTE
Primary Sampling Unit Number	OCCUPANT'S SEATING
2. Case Number - Stratum DS1-95-50-0/3 3. Vehicle Number	10. Occupant's Seat Position Front Seat (11) Left side
4. Occupant Number <u>Ø 2</u>	(12) Middle (13) Right side
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	(14) Other (specify):
6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown 7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknown inches X 2.54 =centimeters	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknownpounds X .4536 =kilograms 9. Occupant's Role (1) Driver (2) Passenger (9) Unknown .	11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown

FJECTION	/ENTRAPMENT
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown	disoriented (2) Removed from vehicle due to injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (9) Unknown

	BELT SYSTE	EM FUNCTION	
18	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt	Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt (1) No upper anchorage adjustment for shoulder be	9 elt
	(3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown	Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position	
	Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify):	 (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment 	~ h
	(9) Unknown	23. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available	<u>Y</u>
19.	Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify):	(1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown	
	(02) Shoulder belt (03) Lap beit (04) Lap and shoulder belt	Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown	ch
	(05) Belt used—type unknown (08) Other belt used (specify):	24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative	Ψ_
	 (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat 	(1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify):	
	(15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify):	(3) Automátic belt use unknown (9) Unknown 25. Automátic (Passive) Belt System Type	A
20	(99) Unknown if belt used	(0) Not equipped/not available (1) Non-motorized system (2) Motorized system	۴_
20.	Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat	(9) Unknown 26. Proper Use of Automatic (Passive) Belt System	½
	Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat	(0) Nót equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat	
	 (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): 	Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than	
	(8) Other improper use of manual belt system (specify):	one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or	
	(9) Unknown Manual (Active) Belt Failure Modes	automatic shoulder belt used improperly with child safety seat (specify):	
	During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not	(8) Other improper use of automatic belt system (specify): (9) Unknown	
	included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):	27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use	<u>\$</u>
	(6) Broken retractor (7) Combination of above (specify):	 (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): 	
	(8) Other manual belt failure (specify): (9) Unknown	(6) Broken retractor	
	•	(7) Combination of above (specify): (8) Other automatic belt failure (specify):	
		(9) Unknown	

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use. [] Not equipped/not available/destroyed or rendered inoperative [] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify):	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:
	 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown 34. Are There Indications of Air Bag System Failure?
	(This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
35. Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (-000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (-996) Deployment, unknown longitudinal Delta V (-997) Not deployed (-998) Unknown if deployed (-999) Unknown
36. Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed (9) Unknown
37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown	42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed (8) Unknown if deployed
38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	(9) Unknown 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

	FIRST SEAT FRONTAL AIR BAG SYSTEM	HEAD RESTRAINT AND SEAT EVALUAT	ION
44.	Source of Air Bag Damage	49. Head Restraint Type/Damage by Occupant at This Occupant Position	9
	(00) Not equipped/not available (01) Not damaged	(0) No head restraints	
	(02) Object worn by occupant, (specify):	(1) Integral—no damage	
	(02) Object worn by occupant, (specify).	(2) Integral—damaged during accident	
	(03) Object carried by occupant, (specify):	(3) Adjustable—no damage	
	(30) Object carried by coodpant, (specify).	(4) Adjustable—damaged during accident	
	(04) Adaptive/assistive controls, (specify):	(5) Add-on—no damage	
	(01) Maapaverassisave seriasis, (specify).	(6) Add-on—damaged during accident	
	(05) Fire in vehicle	(8) Other (specify):	
	(06) Thermal burns	(0) Helmonia	
	(07) Rescue or emergency efforts	(9) Unknown	
	(88) Other damage source (specify):	50 Sept Turne (this Occupant Besition)	9
	(· · ·) · · · · · · · · · · · · · · ·	50. Seat Type (this Occupant Position)	
	(95) Damaged, unknown source	(00) Occupant not seated or no seat (01) Bucket	
	(96) Deployed, unknown if damaged	(02) Bucket with folding back	
	(97) Not deployed	(03) Bench	
	(98) Unknown if deployed	(04) Bench with separate back cushions	
	(99) Unknown	(05) Bench with folding back(s)	
	/	(06) Split bench with separate back cushions	
	M T A T I I I	(07) Split bench with folding back(s)	
45.	Was The Air Bag Tethered?	(08) Pedestal (i.e., column supported)	
	(0) Not equipped/not available	(09) Box mounted seat (i.e., van type)	
	(1) No	(10) Other seat type (specify):	
	(2) Yes (specify number of tether straps):	(10) Other seat type (specify).	
	(2) Depleyed unknown if toth and	(99) Unknown	
	(3) Deployed, unknown if tethered	(00) Chikhowh	
	(7) Not deployed	51. Seat Orientation (this Occupant Position)	
	(8) Unknown if deployed (9) Unknown	(0) Occupant not seated or no seat	
	(9) Olikilowii	(1) Forward facing seat	
46.	Did The Air Bag Have Vent Ports? U	(2) Rear facing seat	
	(0) Not equipped/not available	(3) Side facing seat (inward)	
	(1) No	(4) Side facing seat (outward)	
	(2) Yes (specify number of vent ports):	(8) Other (specify):	
		(4) 5 4.16. (5) 5 5.1.	
	(3) Deployed, unknown if vent ports present	(9) Unknown	
	(7) Not deployed		a
	(8) Unknown if deployed	52. Seat Track Adjusted Position Prior To Impact	
	(9) Unknown	(0) Occupant not seated or no seat	
	/	(1) Non-adjustable seat track	
47.	Was the Air Bag in this Occupant's Position		
	Contacted by Another Occupant?	Adjustable Seat Track	
	(0) Not equipped/not available	(2) Seat at forward most track position	
	(1) No	(3) Seat between forward most and middle track	
	(2) Yes (specify):	positions	
	(0) 5	(4) Seat at middle track position	
	(3) Deployed, unknown if other occupant contact to	(5) Seat between middle and rear most track	
	air bag	positions	
	(7) Not deployed	(6) Seat at rear most track position	
	(8) Unknown if deployed	(9) Unknown	
	(9) Unknown		
40	NA/a This Consumant NA/a dia 7		
4ŏ.	Was This Occupant Wearing Eye-wear?		
	(0) Not equipped/not available		
	(1) No		
	(2) Eyegiasses/sunglasses		
	(3) Contact lenses		
	(4) Deployed, unknown if eyewear worn		
	(7) Not deployed		
	(8) Unknown if deployed		
	(9) Unknown		

HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
 - (00) Occupant not seated or no seat
 - (01) Not adjustable

Upright prior to impact

- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

Slightly reclined prior to impact

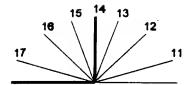
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

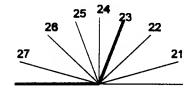
Completely reclined prior to impact

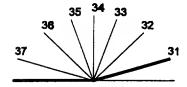
- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown

54. Seat Performance (this Occupant Position)

- (0) Occupant not seated or no seat
- (1) No seat performance failure(s)
- (2) Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed (specify):
- (4) Seat track/anchors failed
- (5) Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion, (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown







CHILD SAFETY SEAT 55. Child Safety Seat Make/Model 58. Child Safety Seat Harness Usage (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing 59. Child Safety Seat Shield Usage (950) Built-in child safety seat (997) Other make/model (specify): 60. Child Safety Seat Tether Usage (998) Unknown make/model (999) Unknown if child safety seat used Note: Options below applicable to Variables OA58-OA60. 56. Type of Child Safety Seat (00) No child safety seat (0) No child safety seat (1) Infant seat Not Designed With Harness/Shield/Tether (2) Toddler seat (01) After market harness/shield/tether (3) Convertible seat added, not used (4) Booster seat - with shield (02) After market harness/shield/tether used (5) Booster seat - without shield (03) Child safety seat used, but no after market (7) Other type child safety seat (specify): harness/shield/tether added (09) Unknown if harness/shield/tether (8) Unknown child safety seat type added or used (9) Unknown if child safety seat used Designed With Harness/Shield/Tether (11) Harness/shield/tether not used 57. Child Safety Seat Orientation (12) Harness/shield/tether used (00) No child safety seat (19) Unknown if harness/shield/tether used Designed for Rear Facing for This Age/Weight Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (01) Rear facing (02) Forward facing (22) Harness/shield/tether used (08) Other orientation (specify): (29) Unknown if harness/shield/tether used (09) Unknown orientation (99) Unknown if child safety seat used Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used

INJURY CONSEQUENCES	
(0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown 62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown 64. Hospital Stay (00) Not Hospitalized Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown 65. Working Days Lost Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
99. Case Occupant (0) Not the Case Occupant (1) This is the Case Occupant (2) This is the Case Occupant in another case.	

STOP WORK HERE

VARIABLES 66-74

	INJURY CONSEQUENCES	TRAUMA DATA
66.	Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 +n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
68.	1st Medically Reported Cause of Death 2nd Medically Reported Cause of Death 9 9 9	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given
	3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):	73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
	(97) Other result (includes fatal ruled disease) (specify):	BELT USE DETERMINATION
70.	Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used

Administration

BEST AVAILABLE

Form Approved O.M.B. No. 2127-00

National Highway Traffic Safety

OCCUPANT INJURY FORM

NATIONAL ACCIDENT SAMPLING SYSTE CRASHWORTHINESS DATA SYSTE

1. Primary Sampling Unit Number

3. Vehicle Number

2. Case Number - Stratum

DS1-95-5P-013

4. Occupant Number

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

		A.i.S 90					Injury	Occupant				
	Source of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Area Intrusion Number	ICD-9
st	5.2	6. <u>B</u>	19	8. <u>A</u> Ø	9. <u>L</u> Z	10.27	113_12	<u> 60 /</u>	_ 13. <u>_</u> L	14, <u>3</u>	15. Ø Ø	9 <u>48.1</u>
nd	16. <u>Z</u>	17.5	18. 7	19. <u>6</u> 8	20. <u>66</u>	21	22	<i>69</i> 7	_ 24. 9	25. <u>7</u>	26. D D	<u>877</u> 9
ird	27.Z	28.	295	30. <u>/8</u>	31. <u>466</u>	32 Z	33. <u>/</u> 34	\$12	. s.Z	36 <i>Z</i> Z	37. <u>99</u>	830 E
th	38. 🛮	30 <u>.</u> Q	40. <u>S</u>	41. <u>34</u>	<u>264</u>	43. <u>3</u>	44245	<u> </u>	46.2	47. <u> </u>	48. <u>99</u>	8 738
en.	49. 🔏	50. <u>B</u>	51 <i>⊆</i>	52 <u>16</u>	52. <u>95</u>	54 <u>3</u> -	55 ∠ 56	Z\$/	_ 57. <u>Z</u>	58	59. <u>99</u>	<u>8738</u>
th	60. <i>A</i>	e1. <u>4</u>	62. <u>4</u>	63. <u>/ Ø</u>	es BZ	65. <u>3</u>	66. <u>4</u> 67	697	7 68. <u>9</u>	69. 7	70.60	861.0
th	71 <u>Z</u>	72.9	73. <u>L</u>	74. <u>97</u>	тэ. <u>Ю4</u>	(16 Z)	9 77⊈18	401	_ 79:	во. <u>З</u>	81. 66	9 <u>86</u>
th	82	83	84	85	86	87	8889		90	91	92	
th	93	94	95	96	97	98	99:100	And the second	101	102:	103	
Oth 1	104	105	106	107	108	109	110111	1	_ 112,	113	114	

Page 2

OCCUPANT INJURY CLASSIFICATION

Body Region Specific Anatomic Level of Injury **Aspect** Structure Head Specific injuries are Right (2) (3) **Face** assigned consecutive (2)Left Neck two-digit numbers beginning Bilateral Vessels, Nerves, Organs. (3)(4) (5) (4) (5) (6) (7) Thorax Bones, Joints are assigned with 02. Central Abdomen consecutive two digit Anterior Spine numbers beginning with 02. To the extent possible, within (6) **Posterior Upper Extremity** the organizational (7)Superior (8) Lower Extremity (8) The exceptions to this rule framework of the AIS, 00 is Inferior **(9)** Unspecified assigned to an injury NFS as apply to: (9) Unknown to severity or where only one Whole region injury is given in the Whole Area **Type of Anatomic** Skin - Abrasion dictionary for that anatomic (02)Structure Skin - Contusion structure. 99 is assigned to (04)Skin - Laceration any injury NFS as to lesion (06) Whole Area Skin - Avulsion (08)or severity. (2) (3) Vessels (10) Amputation Nerves (20)Burn Abbreviated Injury Scale Organs (includes (30) Crush Dealovina Muscles/ligaments) (40) Minor Injury Injury - NFS (2) (3) (5) Skeletal (includes (50) Moderate Injury Trauma, other than (90)joints) Serious Injury Head - LOC (4) (6)mechanical Severe Injury (9) Skin (5) Critical Injury Head - LOC **(6)** Maximum (02) Length of LOC (untreatable) lniured, unknown

(04) Level

of

Consciousness

Concussion

Cervical

Thoracic

Lumbar

(06)

(08)

(10)

<u>Spine</u>

(02)

(04)

		(00)		
SOURCE	OF	INJURY	DATA	

INJURY SOURCE **CONFIDENCE LEVEL**

severity

DIRECT/INDIRECT INJURY

OFFICIAL RECORDS (1) Autopsy records with or without hospital/medical records

- (2) Hospital/medical records other than emergency room (e.g., discharge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- (4) Private physician, walk-in or emergency clinic

UNOFFICIAL RECORDS

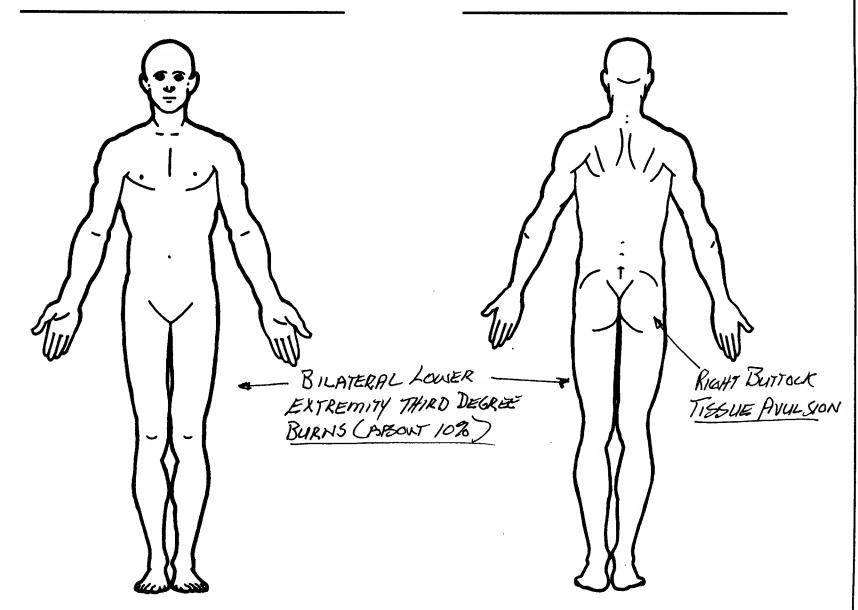
- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) Other source (specify):
- (9) Police

- (1) Certain (2) Probable
- (3) Possible
- (9) Unknown

- - Direct contact injury Indirect contact injury
 - (2) (3) Noncontact injury
 - Injured, unknown source

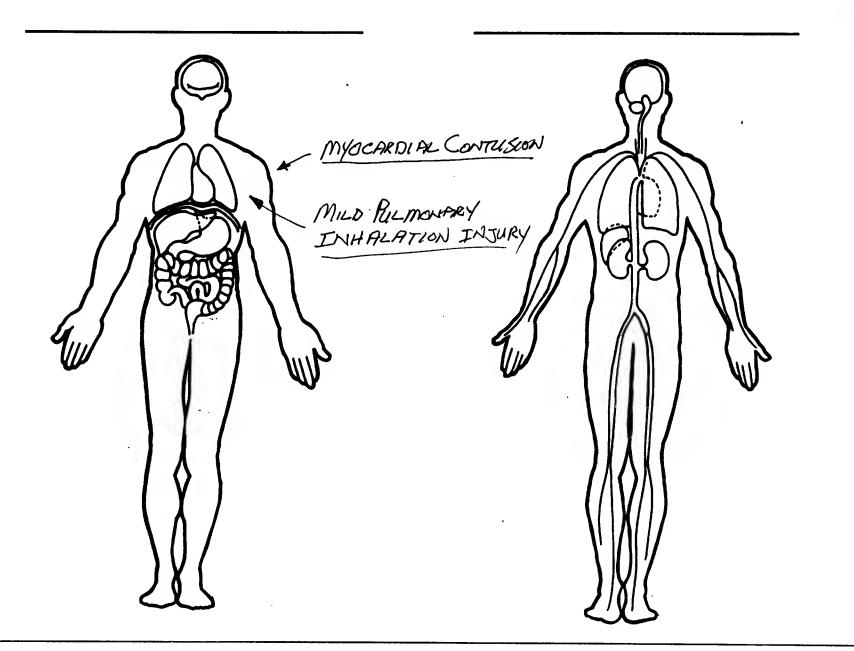
INJURY SOURCES FRONT (102)Right side hardware or Air bag-passenger side and Wall mounted head rest (used (183)(001) Windshield armresi object held behind wheel chair) Right A (A1/A2)-pillar (002)Mirror (103)(184)Air bag-passenger side and (412)Other adaptive device Sunvisor (104)Right B-pillar (003)object in mouth (specify): (004)Steering wheel rim (105)Other right pillar (specify): (185)Air bag compartment (005)Steering wheel hub/spoke cover-passenger side Steering wheel (combination (106)Right side window glass **EXTERIOR of OCCUPANT'S** (006)Air bag compartment of codes 004 and 005) (107) Right side window frame cover-passenger side and VEHICLE (108)(007) Steering column, transmission Right side window sill eyewear (451) Hood selector lever, other (109)Right side window glass Outside hardware (e.g., (187) Air bag compartment (452)including one or more of the cover-passenger side and outside mirror, antenna) (800)Cellular telephone or CB radio following: frame, window sill, iewetry Other exterior surface or tires (009) Add on equipment (e.g., tape A (A1/A2)-pillar, B-pillar, or (188) Air bag compartment (specify): deck, air conditioner) roof side rail. cover-passenger side and (110) Other right side object (010) Left instrument panel and (454) Unknown exterior objects object held (specify): below (189) Air bag compartment (011) Center instrument panel and cover-passenger side and EXTERIOR OF OTHER MOTOR below object in mouth VEHICLE (012) Right instrument panel and INTERIOR (190) Other air bag (specify) (501) Front bumper below (151) Seat, back support (502) Hood edge (013) Glove compartment door (152) Belt restraint webbing/buckle (195) Other air bag compartment (503)Other front of vehicle Belt restraint B-pillar or door (014) Knee bolster cover (specify) (specify): (015) Windshield including one or frame attachment point more of the following: front Other restraint system (504)Hood header, A (A1/A2)-pillar, component (specify): ROOF (505)Hood ornament instrument panel, mirror, or (201) Front header (506)Windshield, roof rail, A-pillar steering assembly (driver side (155)Head restraint system (202) Rear header (507) Side surface Roof left side rail (160) Other occupants (specify): (203)(508) Side mirrors only) (016) Windshield including one or (204)Roof right side rail (509)Other side protrusions more of the following: front Interior loose objects (205)Roof or convertible top (specify): header, A (A1/A2)-pillar, Child safety seat (specify): instrument panel, or mirror **FLOOR** (510)Rear surface (passenger side only) (163) Other interior object (specify): (251) Floor (including toe pan) (511)Undercarriage (017) Windshield reinforced by Tires and wheels (252)Floor or console mounted (512)exterior object (specify) Iransmission lever, including (513) Other exterior of other motor AIR BAG vehicle (specify): (019) Other front object (specify): (170) Air bag-driver side (253) Parking brake handle (171)Air bag-driver side and (254)Foot controls including (514) Unknown exterior of other parking brake motor vehicle eyewear LEFT SIDE (172) Air bag-driver side and jewelry OTHER VEHICLE OR OBJECT IN (051) Left side interior surface. REAR (173) Air bag-driver side and object excluding hardware or THE ENVIRONMENT held (301) Backlight (rear window) armrests (174) Air bag-driver side and object (302)Backlight storage rack, (551) Ground (052) Left side hardware or armrest in mouth door, etc. (598) Other vehicle or object (053) Left A (A1/A2)-pillar (175) Air bag compartment (303) Other rear object (specify): (specify): (054) Left B-pillar cover-driver side (055) Other left pillar (specify): (176) Air bag compartment (599) Unknown vehicle or object ADAPTIVE (ASSISTIVE) DRIVING cover-driver side and evewear (056)Left side window glass NONCONTACT INJURY (177) Air bag compartment EQUIPMENT (057) Left side window frame cover-driver side and jewelry (401) Hand controls for (601) Fire in vehicle (058)Left side window sill (178) Air bag compartment braking/acceleration Flying glass (602)(059)Left side window glass cover-driver side and object Steering control devices (603)Other noncontact injury including one or more of the (attached to OEM steering source following: frame, window sill, (179) Air bag compartment wheel) (specify): A (A1/A2)-pillar, B-pillar, or cover-driver side and object in (403)Steering knob attached to (604)Air bag exhaust gases roof side rail. mouth steering wheel (697) Injured, unknown source Other left side object (180) Air bag-passenger side (405)Replacement steering wheel (181) Air bag-passenger side and (specify): (i.e., reduced diameter) (406)Joy stick steering controls (182) Air bag-passenger side and (407) Wheelchair tie-downs RIGHT SIDE (408)jewelry Modification to seat belts, (101) Right side interior surface. (specify): excluding hardware or Additional or relocated armrests switches, (specify): (410) Raised roof

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



	OFFICIAL INJURY DA	TA — SKELETAL INJURIES
	idicate the Location, Specific Anatomic Structure, Detail (size, depth, fra ource of all injuries indicated by official sources (or from PAR or other u navailable.)	cture type, head injury clinical signs and neurological deficits), and nofficial sources if medical records and interviewee data are
Blood Alcohol Level (mg/dl) BAL =		
Glasgow Coma Scale Score GCSS = Units of Blood Given Units =		
Arterial Blood Gase pH = PO ₂ = PCO ₂ HCO ₃	RIGHT FEMUR FRACTURE	317 4 FIBULA

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





National Highway Traffic Safety Administration	NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM
Primary Sampling Unit Number	OCCUPANT'S SEATING
2. Case Number - Stratum <u>1</u> 5/-95-59-4/3	10. Occupant's Seat Position 999
3. Vehicle Number	Front Seat (11) Left side
4. Occupant Number	(12) Middle (13) Right side
OCCUPANT'S CHARACTERISTICS	(14) Other (specify): (15) On or in the lap of another occupant
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown	Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant
6. Occupant's Sex (1) Male (2) Female-not reported pregnant (3) Female-pregnant-1st trimester(1st-3rd month) (4) Female-pregnant-2nd trimester(4th-6th month) (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown (9) Unknown	Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle
7. Occupant's Height Code actual height to the nearest centimeter. (999) Unknowninches X 2.54 =centimeters	(43) Right side (44) Other (specify): (45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown pounds X .4536 =kilograms 9. Occupant's Role (1) Driver (2) Passenger	11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console
(9) Unknown	(6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown

EJECTION/ENTRAPMENT 12. Ejection 15. Medium Status (Immediately Prior To Impact) (0) No ejection (0) No ejection (1) Complete ejection (1) Open (2) Partial ejection (2) Closed (3) Ejection, unknown degree (3) Integral structure (9) Unknown (9) Unknown 16. Entrapment 13. Ejection Area (0) Not entrapped/exit not inhibited (0) No ejection (1) Entrapped/pinned - mechanically restrained (1) Windshield (2) Could not exit vehicle due to jammed doors, fire, (2) Left front (3) Right front (specify): FIRE (4) Left rear (5) Right rear (6) Rear (9) Unknown (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify):__ 17. Occupant Mobility (9) Unknown (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or disoriented 14. Ejection Medium (2) Removed from vehicle due to injuries (0) No ejection (3) Exited vehicle with some assistance (1) Door/hatch/tailgate (4) Exited vehicle under own power (2) Nonfixed roof structure (5) Occupant fully ejected (3) Fixed glazing (9) Unknown (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown

BELT SYS	TEM FUNCTION
18. Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt	22. Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt (1) No upper anchorage adjustment for shoulder belt
 (3) Lap belt (4) Lap and shoulder belt (5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) 	Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment
(8) Other belt (specify): (9) Unknown 19. Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify):	23. Automatic (Passive) Belt System Availability/ Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered
 (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify): (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (16) Other belt used with child safety seat (17) Other belt used with child safety seat (18) Other belt used with child safety seat (19) Other belt used with child safety seat 	inoperative (9) Unknown 24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown
(99) Unknown if belt used 20. Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat Belt Used Improperly (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify):	(0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown 26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly (3) Automatic belt used properly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or
21. Manual (Active) Belt Failure Modes During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify):	automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown 27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION			
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown 31. Frontal Air Bag System Deployment			
29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	 (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown 			
Check the Primary Source Used In Determining Belt Use. [] Not equipped/not available/destroyed or rendered inoperative [] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify): [Unknown if belt used	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present: 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown 34. Are There Indications of Air Bag System			
	Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify):			

FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
 35. Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown 	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (-000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (-996) Deployment, unknown longitudinal Delta V (-997) Not deployed (-998) Unknown if deployed (-999) Unknown
36. Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed (9) Unknown
37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown	42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed (8) Unknown if deployed
38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	(9) Unknown 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

FIRST SEAT FRONTAL AIR BAG SYSTEM HEAD RESTRAINT AND SEAT EVALUATION **EVALUATION** continued 49. Head Restraint Type/Damage by Occupant 44. Source of Air Bag Damage at This Occupant Position (00) Not equipped/not available No head restraints (01) Not damaged (1) Integral—no damage (02) Object worn by occupant, (specify): (2) Integral—damaged during accident Adjustable—no damage Adjustable—damaged during accident (3) (03) Object carried by occupant, (specify): (4) (5) Add-on-no damage (04) Adaptive/assistive controls, (specify): (6) Add-on-damaged during accident (8) Other (specify): (05) Fire in vehicle (06) Thermal burns (9) Unknown (07) Rescue or emergency efforts (88) Other damage source (specify): 50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (95) Damaged, unknown source (01) Bucket (96) Deployed, unknown if damaged (02) Bucket with folding back (97) Not deployed (03) Bench (98) Unknown if deployed (04) Bench with separate back cushions (99) Unknown (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) 45. Was The Air Bag Tethered? (0) Not equipped/not available (1) No (10) Other seat type (specify): (2) Yes (specify number of tether straps): (99) Unknown (3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed 51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat (9) Unknown (1) Forward facing seat 46. Did The Air Bag Have Vent Ports? (2) Rear facing seat (0) Not equipped/not available (3) Side facing seat (inward) (1) No (4) Side facing seat (outward) (2) Yes (specify number of vent ports): (8) Other (specify): (3) Deployed, unknown if vent ports present (9) Unknown (7) Not deployed (8) Unknown if deployed 52. Seat Track Adjusted Position Prior To Impact (9) Unknown (0) Occupant not seated or no seat (1) Non-adjustable seat track 47. Was the Air Bag in this Occupant's Position **Contacted by Another Occupant?** Adjustable Seat Track (0) Not equipped/not available (2) Seat at forward most track position (1) No (3) Seat between forward most and middle track (2) Yes (specify): (4) Seat at middle track position (3) Deployed, unknown if other occupant contact to (5) Seat between middle and rear most track air bag positions (7) Not deployed (6) Seat at rear most track position (8) Unknown if deployed (9) Unknown (9) Unknown 48. Was This Occupant Wearing Eye-wear? (0) Not equipped/not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown

HEAD RESTRAINT AND SEAT EVALUATION continued

53.	Seat	Back	Incline	Prior	and	Post	Impact	Ċ
	(00)	Occi	ipant n	ot sea	ated	or no	seat	



(01) Not adjustable

Upright prior to impact

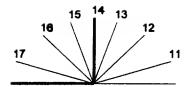
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

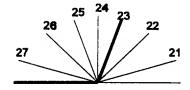
Slightly reclined prior to impact

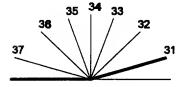
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):_
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown







CHILD SAFETY SEAT 55. Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat used 56. Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used 57. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used

- 58. Child Safety Seat Harness Usage
- 59. Child Safety Seat Shield Usage60. Child Safety Seat Tether Usage

\$ \$ \$ \$ \$ \$ \$ \$

Note: Options below applicable to Variables OA58-OA60.

(00) No child safety seat

Not Designed With Harness/Shield/Tether

- (01) After market harness/shield/tether added, not used
- (02) After market harness/shield/tether used
- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used

Designed With Harness/Shield/Tether

- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

Unknown If Designed With Harness/Shield/Tether

- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used
- (99) Unknown if child safety seat used

INJURY CONSEQUENCES	
61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown
62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown	64. Hospital Stay (00) Not Hospitalized — Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown 65. Working Days Lost — Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
99. Case Occupant (0) Not the Case Occupant (1) This is the Case Occupant (2) This is the Case Occupant in another case.	

STOP WORK HERE

VARIABLES 66-74

	INJURY CONSEQUENCES	TRAUMA DATA
66.	Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
	. 1st Medically Reported Cause of Death 99	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units):
69.	3rd Medically Reported Cause of DeathCode the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):	(specify units):
	(97) Other result (includes fatal ruled disease) (specify):	BELT USE DETERMINATION
70.	Number of Recorded Injuries for This OccupantCode the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify):

U.S. Department of Transportation OCCUPANT ASSESSMENT FORM

NATIONAL ACCIDENT SAMPLING SYSTEM National Highway Traffic Safety OCCUPANT'S SEATING 1. Primary Sampling Unit Number DS1-95-5P-Ø13 2. Case Number - Stratum 10. Occupant's Seat Position Front Seat 3. Vehicle Number (11) Left side (12) Middle 4. Occupant Number (13) Right side (14) Other (specify):_ OCCUPANT'S CHARACTERISTICS (15) On or in the lap of another occupant 5. Occupant's Age Second Seat Code actual age at time of accident. (21) Left side (00) Less than one year old (specify by month): (22) Middle (23) Right side (97) 97 years and older (24) Other (specify):_ (99) Unknown (25) On or in the lap of another occupant Third Seat 6. Occupant's Sex (31) Left side (1) Male (32) Middle (2) Female-not reported pregnant (33) Right side (3) Female-pregnant-1st trimester(1st-3rd month) (34) Other (specify):_ (4) Female-pregnant-2nd trimester(4th-6th month) (35) On or in the lap of another occupant (5) Female-pregnant-3rd trimester(7th-9th month) (6) Female-pregnant-term unknown Fourth Seat (9) Unknown (41) Left side (42) Middle (43) Right side (44) Other (specify): 7. Occupant's Height (45) On or in the lap of another occupant Code actual height to the nearest centimeter. (97) In or on unenclosed area (999) Unknown (98) Other seat (specify):_____ (99) Unknown inches X 2.54 = ___ _ centimeters 8. Occupant's Weight Code actual weight to the nearest 11. Occupant's Posture kilogram. (0) Normal posture (999) Unknown Abnormal posture (1) Kneeling or standing on seat pounds X .4536 = kilograms Lying on or across seat Kneeling, standing or sitting in front of seat 9. Occupant's Role Sitting sideways or turned to talk with another (1) Driver occupant or to look out a rear window (2) Passenger Sitting on a console (9) Unknown (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of (8) Other abnormal posture (specify): (9) Unknown

Vation	nal Accident Sampling System-Crashworthine			Page
	EJECTI	ON/E	NTRAPMENT	
(Ejection O) No ejection 1) Complete ejection 2) Partial ejection 3) Ejection, unknown degree 9) Unknown	Φ_	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown	\$
	Ejection Area 0) No ejection 1) Windshield 2) Left front 3) Right front 4) Left rear 5) Right rear 6) Rear 7) Roof 8) Other area (e.g., back of pickup, etc.)	<u>\$</u>	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, etc. (specify): FIRE (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle (1) Removed from vehicle while unconscious or	fire,
()	Ejection Medium 0) No ejection 1) Door/hatch/tailgate 2) Nonfixed roof structure 3) Fixed glazing 4) Nonfixed glazing (specify): 5) Integral structure 8) Other medium (specify): Unknown	4	disoriented (2) Removed from vehicle due to injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (9) Unknown	

BELTS	SYSTEM FUNCTION
18. Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt	22. Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt (1) No upper anchorage adjustment for shoulder belt Adjustable shoulder Belt Upper Anchorage
(4) Lap and shoulder belt (5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify): (9) Unknown	(2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment 23. Automatic (Passive) Belt System Availability/ Function
19. Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt (03) Lap belt (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify): (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknow	(0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown 24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown
(18) Other belt used with child safety seat (specify): (99) Unknown if belt used 20. Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat **Belt Used Improperly** (3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person	25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown 26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly
 (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify): (9) Unknown 21. Manual (Active) Belt Failure Modes 	(3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify):
During Accident (0) No manual belt used or not available (1) No manual belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other manual belt failure (specify):	(8) Other improper use of automatic belt system (specify): (9) Unknown 27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):
	(9) Unknown

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION			
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown			
(9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/functio (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown			
Check the Primary Source Used In Determining Belt Use. [] Not equipped/not available/destroyed or rendered inoperative [] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify):	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present:			
	33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown			
	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown			

			BEST AV	/AILABLE
Sys	tem: Oc	cupant Assessme	nt Form	Page 5
BAG	SYSTE	M EVALUATION		
	Delta V Deploym (-000) (-996) (-997) (-998)	inal Component of For Air Bag lent Impact Not equipped/not a Code the value of that initiated the air Deployment, unknown Not deployed Unknown if deployed Unknown	vailable the delta V for bag deployn own longitudir	nent
. (Designat (0) Not e (1) No (2) Yes (3) Deplo desig (7) Not o	nown if deployed	ole	- / -
((0) Not e (1) No (2) Yes ((3) Deplo flap(s (7) Not d	own if deployed	ole	
	(00) Not (01) Not (20) Rul (03) Cul (04) Tor (05) Hol (06) Bur (07) Abr (88) Oth (95) Dai (96) Dej	t rn led rned raded ner damage (specify maged, details unki ployed, unknown if	able (1):	
		t deployed known if deployed		

	FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATI
35.	Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes	40. Longitudinal Componer Delta V For Air Bag Deployment Impact (-000) Not equipped/ Code the valu
	 (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown 	that initiated the control of the co
36.	Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cov Designated Tear Points (0) Not equipped/not at (1) No (2) Yes (3) Deployed, unknown designated tear point (7) Not deployed (8) Unknown if deployed (9) Unknown
37.	Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown	42. Were Air Bag Module C (0) Not equipped/not av (1) No (2) Yes (specify): (3) Deployed, unknown flap(s) damaged (7) Not deployed (8) Unknown if deploye
38.	Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	(9) Unknown 43. Was There Damage To (00) Not equipped/not (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
39.	CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (sp (95) Damaged, details (96) Deployed, unknow (97) Not deployed (98) Unknown if deploy (99) Unknown

FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued HEAD RESTRAINT AND SEAT EVALUATION 49. Head Restraint Type/Damage by Occupant 44. Source of Air Bag Damage at This Occupant Position (00) Not equipped/not available No head restraints (01) Not damaged Integral—no damage (1) (02) Object worn by occupant, (specify): Integral—damaged during accident (2) (3) Adjustable—no damage (03) Object carried by occupant, (specify): Adjustable-damaged during accident (4) (5) Add-on—no damage (04) Adaptive/assistive controls, (specify): Add-on-damaged during accident (6) (8) Other (specify): (05) Fire in vehicle (06) Thermal burns Unknown (9) (07) Rescue or emergency efforts (88) Other damage source (specify): 50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (95) Damaged, unknown source (01) Bucket (96) Deployed, unknown if damaged (02) Bucket with folding back (97) Not deployed (03) Bench (98) Unknown if deployed (04) Bench with separate back cushions (99) Unknown (05) Bench with folding back(s) (06) Split bench with separate back cushions (07) Split bench with folding back(s) 45. Was The Air Bag Tethered? (08) Pedestal (i.e., column supported) (0) Not equipped/not available (09) Box mounted seat (i.e., van type) (1) No (10) Other seat type (specify): (2) Yes (specify number of tether straps): (99) Unknown (3) Deployed, unknown if tethered (7) Not deployed 51. Seat Orientation (this Occupant Position) (8) Unknown if deployed (0) Occupant not seated or no seat (9) Unknown (1) Forward facing seat 46. Did The Air Bag Have Vent Ports? (2) Rear facing seat (0) Not equipped/not available (3) Side facing seat (inward) (1) No (4) Side facing seat (outward) (2) Yes (specify number of vent ports): (8) Other (specify): (3) Deployed, unknown if vent ports present (9) Unknown (7) Not deployed (8) Unknown if deployed 52. Seat Track Adjusted Position Prior To Impact (9) Unknown (0) Occupant not seated or no seat (1) Non-adjustable seat track 47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? Adjustable Seat Track (0) Not equipped/not available (2) Seat at forward most track position (1) No (3) Seat between forward most and middle track (2) Yes (specify): positions (4) Seat at middle track position (3) Deployed, unknown if other occupant contact to (5) Seat between middle and rear most track air bag positions (7) Not deployed (6) Seat at rear most track position (8) Unknown if deployed (9) Unknown (9) Unknown 48. Was This Occupant Wearing Eye-wear? (0) Not equipped/not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown

HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact (00) Occupant not seated or no seat
- \$1

(01) Not adjustable

Upright prior to impact

- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

Slightly reclined prior to impact

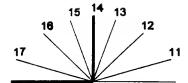
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

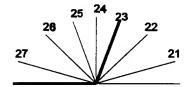
Completely reclined prior to impact

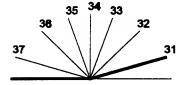
- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):

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- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown







CHILD SAFETY SEAT

55. Child Safety Seat Make/Model
(000) No child safety seat
Applicable codes are found in your NASS CDS
Data Collection, Coding and Editing
(950) Built-in child safety seat
(997) Other make/model (specify):

(998) Unknown make/model

(999) Unknown if child safety seat used

56. Type of Child Safety Seat

- (0) No child safety seat
- (1) Infant seat
- (2) Toddler seat
- (3) Convertible seat
- (4) Booster seat with shield
- (5) Booster seat without shield
- (7) Other type child safety seat (specify):
- (8) Unknown child safety seat type
- (9) Unknown if child safety seat used

57. Child Safety Seat Orientation

(00) No child safety seat

Designed for Rear Facing for This Age/Weight

- (01) Rear facing
- (02) Forward facing
- (08) Other orientation (specify):
- (09) Unknown orientation

Designed For Forward Facing for This Age/Weight

- (11) Rear facing
- (12) Forward facing
- (18) Other orientation (specify):
- (19) Unknown orientation

Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight

- (21) Rear facing
- (22) Forward facing
- (28) Other orientation (specify):
- (29) Unknown orientation
- (99) Unknown if child safety seat used

58. Child Safety Seat Harness Usage

\$6

59. Child Safety Seat Shield Usage



60. Child Safety Seat Tether Usage



Note: Options below applicable to Variables OA58-OA60.

(00) No child safety seat

Not Designed With Harness/Shield/Tether

- (01) After market harness/shield/tether added, not used
- (02) After market harness/shield/tether used
- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used

Designed With Harness/Shield/Tether

- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

Unknown If Designed With Harness/Shield/Tether

- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used
- (99) Unknown if child safety seat used

INJURY CONSEQUENCES	
61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown 62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown 64. Hospital Stay (00) Not HospitalizedCode the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown 65. Working Days LostCode the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
99. Case Occupant (0) Not the Case Occupant (1) This is the Case Occupant (2) This is the Case Occupant in another case.	

STOP WORK HERE

VARIABLES 66-74

INJURY CONSEQUENCES	TRAUMA DATA
Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 + n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units):
69. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):	(9) Unknown if blood given 73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
(97) Other result (includes fatal ruled disease) (specify):	BELT USE DETERMINATION
70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify):



NATIONAL ACCIDENT SAMPLING SYST CRASHWORTHINESS DATA SYST
OCCUPANT'S SEATING
10. Occupant's Seat Position Front Seat (11) Left side (12) Middle (13) Right side (14) Other (specify): (15) On or in the lap of another occupant Second Seat (21) Left side (22) Middle (23) Right side
(24) Other (specify): (25) On or in the lap of another occupant Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
11. Occupant's Posture (0) Normal posture Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat (4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown

EJECTION/ENTRAPMENT			
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown		
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): FIRE (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle		
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify):	(1) Removed from vehicle while unconscious or disoriented (2) Removed from vehicle due to injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (9) Unknown		

		BELT	SYSTE	EM FUNCTION
18	(0) (1)	Belt removed/destroyed	9	22. Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt (1) No upper anchorage adjustment for shoulder belt
	(2) (3) (4) (5)) Lap belt) Lap and shoulder belt		Adjustable shoulder Belt Upper Anchorage (2) In full up position (3) In mid position (4) In full down position (5) Position unknown
	(6) (7) (8)	Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed) Other belt (specify):	l	 (9) Unknown if position has adjustable upper anchorage adjustment 23. Automatic (Passive) Belt System Availability/
19	(00)	anual (Active) Belt System Use) None used, not available, or belt removed/destroyed	9	Function (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown
	(02) (03)	I) Inoperative (specify): 2) Shoulder belt 3) Lap belt 4) Lap and shoulder belt		Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown
	(05) (08) (12)	Belt used—type unknown Other belt used (specify): Shoulder belt used with child safety seat	•	24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually
	(14) (15)	 Lap belt used with child safety seat Lap and shoulder belt used with child safety seat Belt used with child safety seat—type unknown Other belt used with child safety seat 	wn	disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown
20.	(99) Prop	(specify):) Unknown if belt used oper Use of Manual (Active) Belts	9	25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown
	(1) (2) Belt	None used or not available Belt used properly Belt used properly with child safety seat t Used Improperly		26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly
	(3) (4) (5) (6)	Shoulder belt worn under arm Shoulder belt worn behind back or seat Belt worn around more than one person Lap belt worn on abdomen		(2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly
	(7) (8)	Lap belt or lap and shoulder belt used improperly with child safety seat (specify): Other improper use of manual belt system		 (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn
		(specify):		on abdomen (7) Automatic lap and shoulder belt or
21.	Man Durir	nual (Active) Belt Failure Modes ing Accident	9	automatic shoulder belt used improperly with child safety seat (specify):
	(0) (1) (2)	No manual belt used or not available No manual belt failure(s) Torn webbing (stretched webbing not included)		(8) Other improper use of automatic belt system (specify):(9) Unknown
	(3) (4) (5)	Broken buckle or latchplate Upper anchorage separated Other anchorage separated (specify):		27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s)
	(7)	Broken retractor Combination of above (specify):		 (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated
	_	Other manual belt failure (specify): Unknown		(5) Other anchorage separated (specify): (6) Broken retractor
,	(5)	Jiriowii		(6) Broken retractor(7) Combination of above (specify):(8) Other automatic belt failure (specify):
			1	(9) Unknown

AIR BAG SYSTEM FUNCTION
30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
 31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of *other* air bag present:
33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown 34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify):

FIRST SEAT FRONTAL AIF	R BAG SYSTEM EVALUATION
35. Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (-000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (-996) Deployment, unknown longitudinal Delta V (-997) Not deployed (-998) Unknown if deployed (-999) Unknown
36. Type of Air Bag (0) Not equipped/not available (1) Onginal manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed (9) Unknown
37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown	42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed (8) Unknown if deployed
38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	(9) Unknown 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

FIRST SEAT FRONTAL AIR BAG SYSTEM	HEAD RESTRAINT AND SEAT EVALUATION
44. Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify): (03) Object carried by occupant, (specify): (04) Adaptive/assistive controls, (specify):	49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident (5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify):
(06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify): (95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown	(9) Unknown 50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s) (06) Split bench with separate back cushions
45. Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps): (3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown	(07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify): (99) Unknown 51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat
46. Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports): (3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed	(1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): (9) Unknown 52. Seat Track Adjusted Position Prior To Impact
(9) Unknown 47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if other occupant contact to air bag (7) Not deployed	 (0) Occupant not seated or no seat (1) Non-adjustable seat track Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions (4) Seat at middle track position (5) Seat between middle and rear most track positions
(8) Unknown if deployed (9) Unknown 48. Was This Occupant Wearing Eye-wear? (0) Not equipped/not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown	(6) Seat at rear most track position (9) Unknown

HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
 - (00) Occupant not seated or no seat
 - (01) Not adjustable

Upright prior to impact

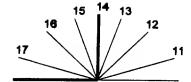
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

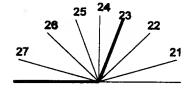
Slightly reclined prior to impact

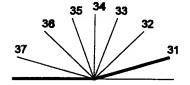
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown







CHILD SAFETY SEAT 55. Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat used 56. Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used 57. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used

- 58. Child Safety Seat Harness Usage
- Ø\$
- 59. Child Safety Seat Shield Usage
- 00
- 60. Child Safety Seat Tether Usage

66

Note: Options below applicable to Variables OA58-OA60.

(00) No child safety seat

Not Designed With Harness/Shield/Tether

- (01) After market harness/shield/tether added, not used
- (02) After market harness/shield/tether used
- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used

Designed With Harness/Shield/Tether

- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

Unknown If Designed With Harness/Shield/Tether

- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used
- (99) Unknown if child safety seat used

INJURY CONSEQUENCES	
61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown 62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown 64. Hospital Stay (00) Not HospitalizedCode the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown 65. Working Days LostCode the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
99. Case Occupant (0) Not the Case Occupant (1) This is the Case Occupant (2) This is the Case Occupant in another case.	

STOP WORK HERE

VARIABLES 66-74

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INJURY CONSEQUENCES		TRAUMA DATA
66. Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 +n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	<u></u>	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death 69. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):	99999	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given 73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported , HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
(97) Other result (includes fatal ruled disease) (specify):	- 1	
(99) Unknown 70. Number of Recorded Injuries for This Occupant Code the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	97	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify): (9) Unknown if belt used
,		

U.S. Department of Transportation OCCUPANT ASS	SESSMENT FORM Form Approved O.M.B. No. 2127-0021
National Highway Traffic Safety Administration	NATIONAL ACCIDENT SAMPLING SYSTEM
Primary Sampling Unit Number	OCCUPANT'S SEATING
National Highway Traffic Safety Administration	OCCUPANT'S SEATING 10. Occupant's Seat Position Front Seat (11) Left side (12) Middle (13) Right side (14) Other (specify): (15) On or in the lap of another occupant Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant Third Seat (31) Left side (32) Middle (33) Right side (34) Other (specify): (35) On or in the lap of another occupant Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify): (45) On or in the lap of another occupant (97) In or on unenclosed area (98) Other seat (specify): (99) Unknown
centimeter. (999) Unknown inches X 2.54 = centimeters 8. Occupant's Weight Code actual weight to the nearest kilogram.	(97) In or on unenclosed area (98) Other seat (specify): (99) Unknown

EJECTION/ENTRAPMENT			
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	\$	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown	
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	Ø	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify): FIRE (9) Unknown 17. Occupant Mobility (0) Occupant fatal before removed from vehicle	
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify):	<u>φ</u>	 (1) Removed from vehicle while unconscious or disoriented (2) Removed from vehicle due to injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (9) Unknown 	
· -8			

	BELT	SYSTE	EM FUNCTION
(0) (1) (2)	ual (Active) Belt System Availability None available Belt removed/destroyed Shoulder belt Lap belt	4	22. Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt (1) No upper anchorage adjustment for shoulder belt Adjustable shoulder Belt Upper Anchorage
(4) (5) Integr (6) (7) (8)	Lap and shoulder belt Belt available—type unknown ral Belt Partially Destroyed Shoulder belt (lap belt destroyed/removed) Lap belt (shoulder belt destroyed/removed) Other belt (specify): Unknown	_	(2) In full up position (3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment 23. Automatic (Passive) Belt System Availability/ Function
19. Manu (00) (01) (02) (03) (04) (05)	val (Active) Belt System Use None used, not available, or belt removed/destroyed Inoperative (specify):	7	(0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative (9) Unknown 24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative
(13) (14) (15) (18) (99) 20. Prope	Shoulder belt used with child safety seat Lap belt used with child safety seat Lap and shoulder belt used with child safety seat Belt used with child safety seat—type unknow Other belt used with child safety seat (specify): Unknown if belt used If Use of Manual (Active) Belts Ione used or not available	wn 9	(1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown 25. Automatic (Passive) Belt System Type (0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown
(1) B (2) B Belt U (3) S (4) S (5) B (6) La (7) La (8) O (s	self used properly self used properly self used properly with child safety seat seed Improperly shoulder belt worn under arm shoulder belt worn behind back or seat self worn around more than one person ap belt worn on abdomen ap belt or lap and shoulder belt used approperly with child safety seat (specify): ther improper use of manual belt system specify):		26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly (2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt or
During (0) No (1) No (2) To ind (3) Br (4) Up (5) Ot (6) Br (7) Co (8) Ot	al (Active) Belt Failure Modes Accident o manual belt used or not available o manual belt failure(s) orn webbing (stretched webbing not cluded) roken buckle or latchplate opper anchorage separated ther anchorage separated (specify): roken retractor ombination of above (specify): ther manual belt failure (specify):	4	automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown 27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify): (6) Broken retractor (7) Combination of above (specify): (8) Other automatic belt failure (specify):
			(9) Unknown

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use. [] Not equipped/not available/destroyed or rendered inoperative [] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify):	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present: 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown
	 (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown 34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

	FIRST SEAT FRONTAL AIR	R BAG SYSTEM EVALUATION
35.	Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (-000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (-996) Deployment, unknown longitudinal Delta V (-997) Not deployed (-998) Unknown if deployed (-999) Unknown
36.	Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed (9) Unknown
	Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown	42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed
	Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed (99) Unknown	(8) Unknown if deployed (9) Unknown 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage (02) Ruptured (03) Cut (04) Torn
	CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

FIRST SEAT FRONTAL AIR BAG SYSTEM HEAD RESTRAINT AND SEAT EVALUATION **EVALUATION** continued 49. Head Restraint Type/Damage by Occupant 44. Source of Air Bag Damage at This Occupant Position (00) Not equipped/not available No head restraints (01) Not damaged Integral—no damage Integral—damaged during accident (1) (02) Object worn by occupant, (specify): (2) Adjustable—no damage Adjustable—damaged during accident (3) (03) Object carried by occupant, (specify): (4) (5) Add-on—no damage (04) Adaptive/assistive controls, (specify): Add-on-damaged during accident (6) Other (specify): (05) Fire in vehicle (06) Thermal burns (9) Unknown (07) Rescue or emergency efforts (88) Other damage source (specify): 50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (95) Damaged, unknown source (01) Bucket (96) Deployed, unknown if damaged (02) Bucket with folding back (97) Not deployed (03) Bench (98) Unknown if deployed (04) Bench with separate back cushions (99) Unknown (05) Bench with folding back(s) Split bench with separate back cushions (07) Split bench with folding back(s) 45. Was The Air Bag Tethered? (08) Pedestal (i.e., column supported) (0) Not equipped/not available (09) Box mounted seat (i.e., van type) (1) No (10) Other seat type (specify): (2) Yes (specify number of tether straps): (99) Unknown (3) Deployed, unknown if tethered (7) Not deployed 51. Seat Orientation (this Occupant Position) (8) Unknown if deployed (9) Unknown (0) Occupant not seated or no seat (1) Forward facing seat 46. Did The Air Bag Have Vent Ports? (2) Rear facing seat (0) Not equipped/not available (3) Side facing seat (inward) (1) No (4) Side facing seat (outward) (2) Yes (specify number of vent ports): (8) Other (specify): (3) Deployed, unknown if vent ports present (9) Unknown (7) Not deployed (8) Unknown if deployed 52. Seat Track Adjusted Position Prior To Impact (9) Unknown (0) Occupant not seated or no seat (1) Non-adjustable seat track 47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? Adjustable Seat Track (0) Not equipped/not available (2) Seat at forward most track position (1) No (3) Seat between forward most and middle track (2) Yes (specify): positions (4) Seat at middle track position (3) Deployed, unknown if other occupant contact to (5) Seat between middle and rear most track air bag positions (7) Not deployed (6) Seat at rear most track position (8) Unknown if deployed (9) Unknown (9) Unknown 48. Was This Occupant Wearing Eye-wear? (0) Not equipped/not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown

HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
 - (00) Occupant not seated or no seat

(01) Not adjustable

Upright prior to impact

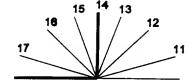
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

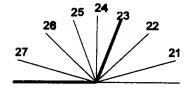
Slightly reclined prior to impact

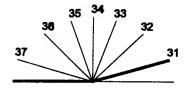
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion. (specify):
 - (7) Combination of above (specify):
 - (8) Other (specify): _
 - (9) Unknown







	-		CHILD SA	FETY SEAT
55.		Safety Seat Make/Model No child safety seat	444	58. Child Sa
	Data (950)	cable codes are found in your N Collection, Coding and Editing Built-in child safety seat	NASS CDS	59. Child Sa
		Other make/model (specify): Unknown make/model		60. Child Sat
		Unknown if child safety seat u	sed	Note: Op Variables
56.		of Child Safety Seat o child safety seat	9	(00) No
	(2) To	ıfant seat oddler seat onvertible seat		Not Desig (01) Afte
	(4) B	ooster seat - with shield ooster seat - without shield	1	add (02) Afte (03) Chi
	(7) 0:	ther type child safety seat (spe	cify):	har (09) Uni
		nknown child safety seat type nknown if child safety seat used	i i	add
5 7	Child (Cafabi Caat Oriantatian	dh	Designed (11) Har
		Safety Seat Orientation No child safety seat	$\varphi\varphi$	(12) Har (19) Unk
		ned for Rear Facing for This Ag Rear facing	je/Weight	<i>Unknown</i> (21) Har
	(02) I	Forward facing	İ	(22) Har
((80)	Other orientation (specify):		(29) Unk
	, ,	Jnknown orientation		(99) Unk
		ned For Forward Facing for Thi	s Age/Weight	
		Rear facing Forward facing		
		Other orientation (specify):		
((19) Ū	Jnknown orientation		
		wn Design or O <mark>rientati</mark> on For T		
		eight, or Unknown Age/Weight		
		Rear facing		
		orward facing		
(20) C	Other orientation (specify):		
(29) Ū	Inknown orientation		
(99) U	Inknown if child safety seat use	d	
			ì	

- 58. Child Safety Seat Harness Usage
- 59. Child Safety Seat Shield Usage
- 60. Child Safety Seat Tether Usage

Note: Options below applicable to Variables OA58-OA60.

(00) No child safety seat

Not Designed With Harness/Shield/Tether

- (01) After market harness/shield/tether added, not used
- (02) After market harness/shield/tether used
- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used

Designed With Harness/Shield/Tether

- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

Unknown If Designed With Harness/Shield/Tether

- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used
- (99) Unknown if child safety seat used

INJURY CONSEQUENCES	
61. Injury Severity (Police Rating) (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown 62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify): Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown	63. Type Of Medical Facility (for Initial Treatment) (0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify): (9) Unknown 64. Hospital Stay (00) Not HospitalizedCode the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown 65. Working Days LostCode the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
99. Case Occupant (0) Not the Case Occupant (1) This is the Case Occupant (2) This is the Case Occupant in another case.	

STOP WORK HERE

VARIABLES 66-74

	INJURY CONSEQUENCES	TRAUMA DATA
66.	Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day = 31, 2 days = 32, n days = 30 +n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
67 .	. 1st Medically Reported Cause of Death	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given
	2nd Medically Reported Cause of Death $\frac{9}{9}$	(specify units):(9) Unknown if blood given
	2 de Medically Reported Cause of Death	73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
	disease) (specify):	BELT USE DETERMINATION
70. j	Number of Recorded Injuries for This OccupantCode the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify):

GENERAL VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM EM

Administration	CRASHWORTHINESS DATA SYST
1. Primary Sampling Unit Number 2. Case Number - Stratum 3. Vehicle Number VEHICLE IDENTIFICATION 4. Vehicle Model Year Code the last two digits of the model year	12. Speed Limit (000) No statutory limit Code posted or statutory speed limit in kmph (999) Unknown 5 5 mph x 1.6093 = Ø 8 9 kmph 13. Police Reported Alcohol Presence For Driver
(99) Unknown 5. Vehicle Make (specify): TOYOTH Applicable codes are found in your NASS Data Collection, Coding and	(0) No alcohol present (1) Yes alcohol present (7) Not reported (8) No driver present (9) Unknown 14. Alcohol Test Result For Driver
Editing Manual. (99) Unknown 6. Vehicle Model (specify): CELICA GTS Applicable codes are found in your NASS Data Collection, Coding and Editing Manual. (999) Unknown	Code actual value (decimal implied before first digit—0.xx) (95) Test refused (96) None given (97) AC test performed, results unknown (98) No driver present (99) Unknown Source: PAR
7. Body Type Note: Applicable codes may be found on the back of this page.	15. Police Reported Other Drug Presence For Driver (0) No other drug(s) present
8. Vehicle Identification Number TT25T 85 N 8 M 0 7 1 1 12 13 14 15 16 17	(1) Yes other drug(s) present (7) Not reported (8) No driver present (9) Unknown
Left justify; Slash zeros and letter Z (and Z) No VIN—Code all zeros Unknown—Code all nines 9. Vehicle Special Use (This Trip) (0) No special use (1) Taxi (2) Vehicle used as school bus (3) Vehicle used as other bus	16. Other Drug Specimen Test Result For Driver (0) No specimen test given (1) Drug(s) not found in specimen (2) Drug(s) found in specimen, (specify): (3) Specimen test given, results unknown or not obtained (8) No driver present (9) Unknown if specimen test given
(4) Military (5) Police (6) Ambulance (7) Fire truck or car (8) Other (specify): (9) Unknown OFFICIAL RECORDS	17. Driver's Zip Code
10. Police Reported Vehicle Disposition (0) Not towed due to vehicle damage (1) Towed due to vehicle damage (9) Unknown 11. Police Reported Travel Speed Code to the nearest kmph (NOTE: 000 means less than 0.5 kmph)	18. Driver's Race/Ethnic Origin (1) White (non-Hispanic) (2) Black (non-Hispanic) (3) White (Hispanic) (4) Black (Hispanic) (5) American Indian, Eskimo or Aleut (6) Asian or Pacific Islander (7) Other (specify):
(160) 159.5 kmph and above (999) Unknown mph x 1.6093 =kmph	(8) No driver present (9) Unknown

CODES FOR BODY TYPE

CDS APPLICABLE VEHICLES

Automobiles

- (01) Convertible (excludes sun-roof, t-bar)
- (02) 2-door sedan, hardtop, coupe
- (03) 3-door/2-door hatchback
- (04) 4-door sedan, hardtop
- (05) 5-door/4-door hatchback
- (06) Station wagon (excluding van and truck based)
- (07) Hatchback, number of doors unknown
- (08) Other automobile type (specify):
- (09) Unknown automobile type

Automobile Derivatives

- (10) Auto based pickup (includes El Camino, Caballero, Ranchero, Brat, and Rabbit pickup)
- (11) Auto based panel (cargo station wagon, auto based ambulance/hearse)
- (12) Large limousine more than four side doors or stretched chassis
- (13) Three-wheel automobile or automobile derivative

Utility Vehicles (≤ 4,500 kgs GVWR)

- (14) Compact utility (Jeep CJ-2 CJ-7, Scrambler, Golden Eagle, Renegade, Laredo, Wrangler, Cherokee [84 and after], Dispatcher, Raider, Bronco II, Bronco [76 and before], Explorer, S-10 Blazer, Geo Tracker, Bravada, S-15 Jimmy, Thing, Pathfinder, Trooper, Trooper II, Rodeo, Amigo, Navajo, 4-Runner, Montero, Passport, Samurai, Sidekick, Rocky)
- (15) Large utility (includes Jeep Cherokee [83 and before], Ramcharger, Trailduster, Bronco-fullsize [78 and after], fullsize Blazer, fullsize Jimmy, Hummer, Landcruiser, Rover, Scout, Yukon)
- (16) Utility station wagon (Chevy Suburban, GMC Suburban, Travelall, Grand Wagoneer, includes suburban limousine)
- (19) Utility, unknown body type

Van Based Light Trucks (≤ 4,500 kgs GVWR)

- (20) Minivan (Town and Country, Caravan, Grand Caravan, Voyager, Grand Voyager, Mini-Ram, Vista, Aerostar, Windstar, Villager, Lumina APV, Trans Sport, Silhouette, Astro, Safari, Toyota Van, Toyota Minivan, Previa, Nissan Minivan, Quest, Mitsubishi Minivan, Expo Wagon, Vanagon/Camper.)
- (21) Large van (B150-B350, Sportsman, Royal, Maxiwagon, Ram, Tradesman, Voyager [83 and before], E150-E350, Econoline, Clubwagon, Chateau, G10-G30, Chevy Van, Beauville, Sport Van, G15-G35, Rally Van, Vandura.)
- (22) Step van or walk-in van (≤ 4,500 kgs GVWR)
- (23) Van based motorhome (≤ 4,500 kgs GVWR)
- (24) Van based school bus (≤ 4,500 kgs GVWR)
- (25) Van based other bus (≤ 4,500 kgs GVWR)
- (28) Other van type (Hi-Cube Van, Kary) (specify):
- (29) Unknown van type

Light Conventional Trucks (Pickup style cab, ≤ 4,500 kgs GVWR)

- (30) Compact pickup (D50, Colt P/U, Ram 50, Dakota, Arrow Pickup [foreign], Ranger, Couner, S-10, T-10, LUV, S-15, T-15, Sonoma, Datsur/Nissan Pickup, P'up, Mazda Pickup, Toyota Pickup, Mitsubishi Pickup)
- (31) Large Pickup (Jeep Pickup, Comanche, Ram Pickup, D100-D350, W100-W350, F100-F350, C10-C35, K10-K35, R10-R35, V10-V35, Silverado, Sierra, R100-R500, T100)

- (32) Pickup with slide-in camper
- (33) Convertible pickup
- (39) Unknown pickup style light conventional truck type

Other Light Trucks (≤ 4,500 kgs GVWR)

- (40) Čab chassis based (includes rescue vehicles, light stake, dump, and tow truck)
- (41) Truck based panel
- (42) Light truck based motorhome (chassis mounted)
- (45) Other light conventional truck type
- (48) Unknown light truck type
- (49) Unknown light vehicle type (automobile, utility, van, or light truck)

OTHER VEHICLES

Buses (Excludes Van Based)

- (50) School bus (designed to carry students, not cross country or transit)
- (58) Other bus type (e.g., transit, intercity, bus based motorhome) (specify):
- (59) Unknown bus type

Medium/Heavy Trucks (> 4,500 kgs GVWR)

- (60) Step van (> 4,500 kgs GVWR)
- (61) Single unit straight truck (4,500 kgs < GVWR ≤ 8,850 kgs)
- (62) Single unit straight truck (8,850 kgs < GVWR ≤ 12,000 kgs)
- (63) Single unit straight truck (> 12,000 kgs GVWR)
- (64) Single unit straight truck, GVWR unknown
- (65) Medium/heavy truck based motorhome
- (67) Truck-tractor with no cargo trailer
- (68) Truck-tractor pulling one trailer
- (69) Truck-tractor pulling two or more trailers
- (70) Truck-tractor (unknown if pulling trailer)
- (78) Unknown medium/heavy truck type
- (79) Unknown truck type (light/medium/heavy)

Motored Cycles (Does Not Include All-Terrain Vehicles/Cycles)

- (80) Motorcycle
- (81) Moped (motorized bicycle)
- (82) Three-wheel motorcycle or moped
- (88) Other motored cycle (minibike, motorscooter) (specify):_____
- (89) Unknown motored cycle type

Other Vehicles

- (90) ATV (All-Terrain Vehicle) and ATC (All-Terrain Cycle)
- (91) Snowmobile
- (92) Farm equipment other than trucks
- (93) Construction equipment other than trucks
- (97) Other vehicle type
- (99) Unknown body type

	PRECRASH ENVIRONMENTAL DATA		
	PRECRASH ENVIRONMENTAL DATA	25. Roadway Surface Condition	- 1
10	Polotion To Interchange Or Junction	(1) Dry	
19.	Relation To Interchange Or Junction	(2) Wet	
	(0) Non-interchange area and non-junction	(3) Snow or slush	
	(1) Interchange area related	(4) Ice	
		(5) Sand, dirt, or oil	
	Non-Interchange junctions	(8) Other (specify):	
	(2) Intersection related	(9) Unknown	
	(3) Driveway, alley access related	(a) Olikilowii	
	(4) Other junction (specify)		~
		26. Light Conditions	3
	(5) Unknown type of junction	(1) Daylight	
		(2) Dark	
	(9) Unknown	(3) Dark, but lighted	
		(4) Dawn	
	1	(5) Dusk	
20.	Trafficway Flow	(9) Unknown	
	(0) Not physically divided (two way traffic)	(0) 0	
	(1) Divided trafficway-median strip without positive		,
	barner	27. Atmospheric Conditions	ch
	(2) Divided trafficway-median strip with positive barrier	(0) No adverse atmospheric-related driving	7
	(3) One way traffic	conditions	
	(9) Unknown	(1) Rain	
		(2) Sleet/hail	
21.	Number Of Travel Lanes <u>5</u>	(3) Snow	
	(1) One	(4) Fog	
	(2) Two	(5) Rain and fog	
	(3) Three	(6) Sleet and fog	
	(4) Four	(7) Other (e.g., smog, smoke, blowing sand or	dust,
	(5) Five	etc.) (specify):	
	(6) Six	(9) Unknown	
	(7) Seven or more		
	(9) Unknown	28. Traffic Control Device	<u>၁</u>
		(0) No traffic control(s)	
~~	Danie 48 1	(1) Traffic control signal (not RR crossing)	
	Roadway Alignment		
	(1) Straight	Regulatory	
	(2) Curve right	(2) Stop sign	
	(3) Curve left	(3) Yield sign	
	(9) Unknown	(4) School zone sign	
		(5) Other regulatory sign (specify):	
23	Roadway Profile	DO NOT ENTER	
	(1) Level	(6) Warning sign (not RR crossing)	
	(2) Uphill grade (>2%)	(7) Unknown sign	
	(3) Hill crest	(8) Miscellaneous/other controls including RR	
	•	controls (specify):	
	(4) Downhill grade (>2%)	(4)	
	(5) Sag	(9) Unknown	
,	9) Unknown	(-)	
24. I	Roadway Surface Type	29. Traffic Control Device Functioning	2
	1) Concrete	(0) No traffic control device	<u>~</u>
	2) Bituminous (asphalt)	(1) Traffic control device not functioning	
	3) Brick or block	(specify)	
	4) Slag, gravel, or stone	· (Sheona)	
	5) Dirt	(2) Traffic control device functioning properly	
	8) Other (specify):	(9) Unknown	
	9) Unknown	(a) CHMHOWH	
,	-,		
	.		1

kiitž Caici	Configur-	ACCIDENT TYPE	S (Includes Intent)	Et.	ST AVAILABLE
-	A. Righi Roadside Departure	DRIVE OFF CONTROL/TRACTION LOSS	AVOID COLLISION WITH VEH., PED., ANIM.	SPECIFICS	06 BPECIFICS UNKNOWN
I. Single Driver	B. Left Roadside Departure	DRIVE OFF CONTROL/ ROAD TRACTION LOSS	AVOID COLLISION WITH VEH., PED., ANIM.	09 SPECIFICS S	PECIFICS
	C Forward Impact	PARKED VEH. STA. OBJECT PEDEST		15 1	6 PECIFICS
ich ay tion	D Rear-End	20 22 24 22 22 23 STOPPED SLOWER 21, 22, 23 25, 27	6 28 -11- 29	(EACH • 32) (I	EACH • 331
ll Same Trafficway Same Direction	f: Forward Impaci	34 (C) 36 (C) 38 35 37 38	COLLISION AVOID COLLI	(II) (EACH • 42 41 SION SPECIFICS	SPECIFICS
	F. Sideswipe Angle	46 45 45 47	(EACH • 48) SPECIFICS OTHER	(EACH •	UNKNOWN 49) UNKNOWN
ve.	G Heid-On	50 51 (EACH • 52) SPECIFICS OTHER	(EACH • 53) SPECIFICS UNKNOW	'n	
Same Trafficway Opposite Direction	H Forward Impact	54 55 56 57 58 CONTROL/ TRACTION LOSS TRACTION LOSS WITH	D COLLISION AVOID COLLIS WITH OBJECT	CII (EACH • 62) - 61 SION SPECIFICS OTHER	SPECIFICS
Ξ,	l. Sideswipe' Angle	64 (EACH • 66) SPECIFICS OTHER	(EACH • 67) SPECIFICS UNKNOW		
Change Trafficuzy Vehicle Turning	J. Turn Across Path	69 71 70 INITIAL OPPOSITE INITIAL SAME DIRECTIONS	73————————————————————————————————————		PECIFICS
<u>-</u>	K. Turn Into Path	77 79 78 80 TURN INTO SAME DIRECTION TURN I	81 83 82 NTO OPPOSITE DIRECTIONS	(EACH • 84) (PECIFICS
(Vehicle Dainage)	L. Siraighi Paihs	88 89	(EACH • 90) SPECIFICS OTHER	(EACH • 91) SPECIFICS UNK	NOWN
VI Miscel Iancous	M. Backing Eic.	92 93 OTHER VEH. OR OBJECT VEH.	98 Other Acciden 99 Unknown Acc 00 No Impact	it Type ident Type	v. 1

	PRECRASH DRIVER RELATED DATA	This Vehicle Traveling
30	Driver's Distraction/Inattention To Driving 99	(10) Over the lane line on left side of travel lane
	(Prior To Recognition Of Critical Event)	(11) Over the lane line on right side of travel lane (12) Off the edge of the road on the left side
1	(00) No driver present	(12) Off the edge of the road on the right side
	(01) Attentive or not distracted (02) Looked but did not see	(14) End departure
	Distractions	(15) Turning left at intersection
	(03) By other occupant(s), (specify):	(16) Turning right at intersection
		(17) Crossing over (passing through) intersection (18) This vehicle decelerating
	(04) By moving object in vehicle (specify):	(19) Unknown travel direction
l	(05) While talking or listening to cellular phone (specify	(10) Similardi di Sololi
l	location and type of phone):	Other Motor Vehicle In Lane
		(50) Other vehicle stopped
	(06) While dialing cellular phone (specify location and	(51) Traveling in same direction with lower steady speed
	type of phone):	(52) Traveling in same direction while decelerating
	(07) While adjusting climate controls	(53) Traveling in same direction with higher speed
1	(08) While adjusting radio, cassette, CD (specify):	(54) Traveling in opposite direction
ĺ		(55) In crossover
	(09) While using other device/object in vehicle (specify):	(56) Backing (59) Unknown travel direction of other motor vehicle in
	(40) 0	lane
l	(10) Sleepy or fell asleep	iano
	(11) Distracted by outside person, object, or event (specify):	Other Motor Vehicle Encroaching Into Lane
	(open, y).	(60) From adjacent lane (same direction)—over left
	(12) Eating or drinking	lane line
	(13) Smoking related	(61) From adjacent lane (same direction)—over right lane line
	(97) Distracted/inattentive, details unknown	(62) From opposite direction—over left lane line
	(98) Other, distraction (specify):	(63) From opposite direction—over right lane line
	(99) Unknown	(64) From parking lane
31	Pre-Event Movement (Prior to	(65) From crossing street, turning into same direction
•	Recognition of Critical Event)	(66) From crossing street, across path (67) From crossing street, turning into opposite
	(00) No driver present	direction
	(01) Going straight	(68) From crossing street, intended path not known
	(02) Decelerating in traffic lane	(70) From driveway, turning into same direction
	(03) Accelerating in traffic lane (04) Starting in traffic lane	(71) From driveway, across path
	(05) Stopped in traffic lane	(72) From driveway, turning into opposite direction (73) From driveway, intended path not known
	(06) Passing or overtaking another vehicle	(74) From entrance to limited access highway
	(07) Disabled or parked in travel lane	(78) Encroachment by other vehicle—details unknown
	(08) Leaving a parking position	
	(09) Entering a parking position (10) Turning right	Pedestrian, Pedalcyclist, or Other Nonmotorist
	(11) Turning left	(80) Pedestrian in roadway (81) Pedestrian approaching roadway
	(12) Making a U-turn	(82) Pedestrian—unknown location
	(13) Backing up (other than for parking position)	(83) Pedalcyclist or other nonmotorist in roadway
	(14) Negotiating a curve (15) Changing lanes	(specify):
	(16) Merging lanes	(84) Pedalcyclist or other nonmotorist approaching roadway, (specify):
	(17) Successful avoidance maneuver to a previous	(85) Pedalcyclist or other nonmotorist—unknown
	critical event	location (specify):
	(97) Other (specify):	
	(99) Unknown	Object or Animal
	` '	(87) Animal in roadway (88) Animal approaching roadway
	Critical Precrash Event 98	(89) Animal—unknown location
	This Vehicle Loss of Control Due To:	(90) Object in roadway
	(01) Blow out or flat tire	(91) Object approaching roadway
	02) Stalled engine 03) Disabling vehicle failure (e.g., wheel fell off)	(92) Object—unknown location
,	(specify):	(98) Other critical precrash event (specify): WRONG WAY ON A ONE WAY
(04) Non-disabling vehicle problem (e.g., hood flew up)	(99) Unknown ROADWAY
	(specify):	TOND WITH
(05) Poor road conditions (puddle, pot hole, ice, etc.)	'
-	(specify):	
ì	08) Other cause of control loss (specify):	
•	· · · · · · · · · · · · · · · · · · ·	ı

(09) Unknown cause of control loss

National Accident Sampling System-Crashworthiness Data	a System: General Vehicle Form BEST AVAILABLE Page
33. Attempted Avoidance Maneuver (00) No driver present (01) No avoidance maneuver (02) Braking (no lockup) (03) Braking (lockup) (04) Braking (lockup unknown) (05) Releasing brakes (06) Steering left (07) Steering right (08) Braking and steering left (09) Braking and steering right (10) Accelerating (11) Accelerating and steering left (12) Accelerating and steering right (98) Other action (specify):	35. Pre-Impact Location (0) No driver present (1) Stayed in original travel lane (2) Stayed on roadway but left original travel lane (3) Stayed on roadway, not known if left original travel lane (4) Departed roadway (5) Remained off roadway (6) Returned to roadway (7) Entered roadway (9) Unknown 36. Accident Type (Note: Applicable codes on back of this page) (00) No impact Code the number of the diagram that best
34. Pre-Impact Stability (0) No driver present (1) Tracking (2) Skidding longitudinally—rotation less than 30 degrees (3) Skidding laterally—clockwise rotation (4) Skidding laterally—counterclockwise rotation (7) Other vehicle loss-of-control (specify): (9) Precrash stability unknown	describes the accident circumstance (98) Other accident type (specify): (99) Unknown
STOP HERE IF GV07 DOE	ES NOT EQUAL 01 - 49

43 .	Vehicle Curb Weight / , 2, 7	n
	Code weight to nearest	•
	10 kilograms.	
	(045) Less than 450 kilograms	
,	(610) 6.100 kilograms or more	
	(999) Unknown	
	(999) Unknown 4 2 6 4 1 lbs × .4536 = 1 2 7 2 kgs	
	Source:	

(9) Unknown roll direction

CODES FOR ROLLOVER INITIATION OBJECT CONTACTED

(00) No rollover (01-30) — Vehicle Number	(57) Fence (58) Wall
A1	(59) Building
Noncollision	(60) Ditch or culvert
(31) Turn-over — fall-over	(61) Ground
(32) No rollover impact initiation (end-over-end)	(62) Fire hydrant
(34) Jackknife	(63) Curb
- m	(64) Bridge
Collision With Fixed Object	(68) Other fixed object (specify):
(41) Tree (≤ 10 cm in diameter)	
(42) Tree (> 10 cm in diameter)	(69) Unknown fixed object
(43) Shrubbery or bush	,
(44) Embankment	Collision with Nonfixed Object
	(70) Passenger car, light truck, van, or other vehicle
(45) Breakaway pole or post (any diameter)	not in-transport
() () () ()	(71) Medium/heavy truck or bus not in-transport
Nonbreakaway Pole or Post	(76) Animal
 (50) Pole or post (≤ 10 cm in diameter) (51) Pole or post (> 10 cm but ≤ 30 cm in diameter) (52) Pole or post (> 30 cm in diameter) 	(77) Train
(51) Pole or post (> 10 cm but < 30 cm in diameter)	(78) Trailer, disconnected in transport
(52) Pole or post (> 30 cm in diameter)	(79) Object fell from vehicle in-transport
(53) Pole or post (diameter unknown)	(88) Other nonfixed object (specify):
(44) I die di post (diamoter diminotti)	(00) Other nomixed object (specify).
(54) Concrete traffic barner	(89) Unknown nonfixed object
(55) Impact attenuator	
(56) Other traffic barrier (includes guardrail)	(98) Other event (specify):
(specify):	
	(99) Unknown event or object

OVERRIDE/UNDERRIDE (THIS VEHICLE)	ACCIDENT RECONSTRUCTION PROGRAMS HIGHEST DELTA V
51. Front Override/Underride (this Vehicle)	The state of the s
52. Rear Override/Underride (this Vehicle) (0) No override/underride, or not an end-to-end	58. Basis for Total (Resultant) Delta V
impact between two CDS applicable vehicles, and no medium/heavy truck or bus underride	(00) No vehicle inspection
Override (see specific CDC) [Between 2 CDS applicable vehicles (Bodytype, GV07=1-49)] (1) 1st CDC (2) 2nd CDC (3) Other not automated CDC (specify):	Delta V Calculated (01) Reconstruction program -damage only routine (02) Reconstruction program -damage and trajectory routine (03) Missing vehicle algorithm Delta V Not Calculated
(4) 1st CDC (5) 2nd CDC (6) Other not automated CDC (specify):	(04) At least one vehicle (which may be this vehicle) is beyond the scope of an acceptable reconstruction program, regardless of collision conditions.
(7) Medium/heavy truck or bus override (of any configuration)(9) UnknownHEADING ANGLE AT IMPACT FOR	All vehicles within scope (CDC applicable) of reconstuction program but one of the collision conditions is beyond the scope of the reconstruction program or other acceptable reconstruction
HIGHEST DELTA V	technique, regardless of adequacy of damage data.
Values: (000)-(359) Code actual value (997) Noncollision (998) Impact with object (999) Unknown 53. Heading Angle For This Vehicle 54. Heading Angle For Other Vehicle	(05) Rollover (06) Other non-horizontal forces (07) Sideswipe type damage (08) Severe override (09) Yielding object (10) Overlapping damage
RECONSTRUCTION DATA	(11) All vehicle and collision conditions are within scope of one of the acceptable reconstruction
55.Towed Trailing Unit (0) No towed unit (1) Yes—towed trailing unit (9) Unknown	programs, but there is insufficient data available, (98) Other, (specify):
56. Documentation of Trajectory Data for This Vehicle (0) No (1) Yes	
57. Post Collision Condition of Tree or Pole (For Highest Delta V) (0) Not collision (for highest delta V) with tree or pole (1) Not damaged (2) Cracked/sheared (3) Tilted <45 degrees (4) Tilted ≥45 degrees (5) Uprooted tree (6) Separated pole from base (7) Pole replaced (8) Other (specify):	
• ,	

COMPUTER GENERA	TED CRASH SEVERITY
59. Total Delta V	Highest 998 Nearest kmph (highest) Nearest kmph (secondary) (NOTE: 000 means less than 0.5 kmph) (160) 159.5 kmph and above (998) Trajectory algorithm not run (999) Unknown DELTA V CONFIDENCE LEVEL
Nearest kmph (nignest) Nearest kmph (secondary) (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (999) Unknown Highest 61. Lateral Component of Delta V	64. Confidence In Reconstruction Program Results (For Highest Delta V) (0) No reconstruction (1) Collision fits model — results appear reasonable (2) Collision fits model — results appear high (3) Collision fits model — results appear low (4) Borderline reconstruction — results appear reasonable
Nearest kmph (secondary) (NOTE:000 means greater than -0.5 kmph and less than +0.5 kmph) (±160) ±159.5 kmph and above (_999) Unknown 62. Energy Absorption	Highest 65. Barrier Equivalent Speed GS.4 Nearest kmph (highest)
	,

IS MISSING VEHICLE ALGORITHM APPLICABLE FOR THIS VEHICLE? []YES [YNO IF YES: IS A COMPLETED PROGRAM SUMMARY INCLUDED? [] YES [] NO

ESTIMATED DELTA V VEHICLE INSPECTION \$ 3 66. Estimated Highest Delta V (Researcher 67. Type of Vehicle Inspection Determined) (0) No inspection (0) Reconstruction Delta V coded Vehicle fully repaired-no damage evident (1) (2) Partial inspection (specify): Estimated Delta V (1) Less than 10 kmph (3) Complete inspection (2) ≥ 10 kmph but < 25 kmph (3) ≥ 25 kmph but < 40 kmph (4) ≥ 40 kmph but < 55 kmph (5) ≥ 55 kmph Other estimates of damage severity (6) Minor (7) Moderate (8) Severe (9) Unknown

*** IF THE CDS APPLICABLE VEHICLE WAS NOT INSPECTED (I.E., GV67=0), *** DO NOT COMPLETE THE EXTERIOR AND INTERIOR VEHICLE FORMS

*** IF GV07 DOES NOT EQUAL 01-49, DO NOT COMPLETE *** THE EXTERIOR VEHICLE, INTERIOR VEHICLE, OCCUPANT ASSESSMENT, AND OCCUPANT INJURY FORMS. Administration

National Highway Traffic Safety

EXTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

1. Primary Sampling Unit Number

3. Vehicle Number

2. Case Number - Stratum

DS1-95-5P-0/3

VEHICLE IDENTIFICATION

VIN JT25 T85 N8 MB XXXXX Model Year 91 Vehicle Model (specify): CELICA

LOCATOR

Locate the end of the damage with respect to the vehicle longitudinal center line or bumper corner for end impacts or an undamaged axle for side impacts.

		Location of Field L	Location of Max Crush		
ϕI F	FULL FRONTAL	FULL FRONTAL	CI		
			•		

CRUSH PROFILE IN CENTIMETERS

NOTES: Identify the plane at which the C-measurements are taken (e.g., at bumper, above bumper, at sill, above sill, etc.) and label adjustments (e.g., free space).

Measure C1 to C6 from driver to passenger side in front or rear impacts and rear to front in side impacts.

Free space value is defined as the distance between the baseline and the original body contour taken at the individual C locations. This may include the following: bumper lead, bumper taper, side protrusion, side taper, etc. Record the value for each C-measurement and maximum crush.

Use as many lines/columns as necessary to describe each damage profile.

Specific Impact Number	Plane of Impact C-Measurements	Direct D Width (CDC)	Damage Max Crush	Field L	C,	C ₂	C ₃	C,	C ₅	C ₆	±D
Ø/	FRONT BYMAER	140	115.5	73	49.5	83.0	80.5	94.5	102.5	115.5	Ø
	LESS F/S		10.0		10.0	1.0	d	Ø	1.0	19.0	
	RESULTANT		1055		39.5	82.0	80.5	94.5	141.5	105.5	ø
		·· · · · · · · · · · · · · · · · · · ·							_		
											
					,				•		
				-							

ORIGINAL SPECIFICATIONS WORK SHEET

Wheelbase	499.6 inches	x 2.54	=	<u> 253</u> cm
Overall Length	174. Ø inches	x 2.54	=	<u>442</u> cm
Maximum Width	$\cancel{\phi}$ $\cancel{6}$ $\cancel{8}$ $\cancel{9}$ inches	x 2.54	=	cm
Curb Weight	$\phi 2.8 \phi 4$ pounds	x .4536	=	1.272 kg
Average Track	$\cancel{\phi}$ $\cancel{5}$ $\cancel{7}$ $\cancel{9}$ inches	x 2.54	=	<u> 147</u> cm
Front Overhang	<u>\$ 38.6</u> inches	x 2.54	=	<u>ø 98</u> cm
Rear Overhang	<u>\$\psi 35.8</u> inches	x 2.54	=	<u># 9 cm</u>
Undeformed End Width	0.55.1 inches	x 2.54	=	cm
Engine Size: cyl./displ.	22 <i>00</i> 00	x .001	=	<u>2.2</u> L
	_ <u>/34</u> ciD	x .0164	=	<u>2.2</u> L

	VEHICLE DAMAGE SKETCH	. 496
TIRE—WHEEL DAMAGE a. Rotation physically b. Tire restricted deflated RF 2 RF 2 LF 2 RR 2 LR 2 LR 2 (1) Yes (2) No (8) NA (9) Unk. TYPE OF TRANSMISSION Manual Automatic END SHIFT ≥ 10 CM Yes □ No	ORIGINAL SPECIFICATIONS Wheelbase 253 cm Overall Length 442 cm Maximum Width 175 cm Curb Weight 1272 kg Average Track 147 cm Front Overhang 98 cm Rear Overhang 91 cm Undeformed End Width 140 cm Engine Size: cyl./displ. 2.2 L	WHEEL STEER ANGLES (For locked front wheels or displaced rear axles only) RF ±
145	Original Bumper height	147
	POST-CRASH Sumper corner 44 257 Stringline 94	Bumper corner 91 Stringline
MAK CHUSH	POST-CRASH Amper corner N/A /93 Stringline 9/	Ha Bumper corner Stringline

NOTES; Sketch new perimeter and cross hatch direct damage and single hatch induced damage on all views. Annotate observations which might be useful in reconstructing the accident (e.g., grass in tire bead, direction of striations, scuff on sidewalls, etc.). If pulling trailer, sketch type of trailer and damage received on the back of this page.

Annotate any damage caused by extrication such as component removel by torching, prying, or hydraulic shears.

Va	ational A	ccident Samp	oling System-Cra		s Data Syste WORKSH			Vehicle For	m BEST AV	AILABLE	Page
Ì	-				OBJECT CO		_				
(01-30) — Vehicle Number						57)					
	` ′				58)						
	Noncol	oncollision									
			ollover (excludes	end-over-end		59) 60)					
		Rollover-en				51)		Janon			
		Fire or explos				32)		rant			
		Jackknife				33)					
	(35)		it damage (specif	ن):		54)					
	(36) Noncollision injury					88)					
	(38)	(6	S9)	Unknow	n fixed objec	:t					
	(39)	Noncollision -	— details unknow	- details unknown			sion with Nonfixed Object				
									truck, van, o	r other veh	icle
	Collision	n With Fixed O	bject	`	•	not in-transport					
	(41)	Tree (≤ 10 cn	n in diameter)		(7	71)			or bus not in	-transport	
	(42)	Tree (> 10 cn	n in diameter)			' 2)					
	(43)				•	' 3)		r cycle			
	(44)	Embankment		4)	Other no	nmotorist or	conveyance				
	(45)	Breakaway po			Vehicle o	occupant	7-50-1				
Nonhardson Balana Bart											
	Nonbreakaway Pole or Post					7)					
	(50) Pole or post (≤ 10 cm in diameter)				(8) (9)						
		(51) Pole or post (> 10 cm but ≤ 30 cm in diameter)(52) Pole or post (> 30 cm in diameter)									
	(52) (53)	(8	8)	Other nonfixed object (specify): Unknown nonfixed object							
	(54)	(54) Concrete traffic barrier							9)		
	(55) (56)	Impact attenu	ator arrier (includes gı	ıardrail)	(98	8)	Other event (specify):				
	()	(specify):	(9	(99) Unknown event or object							
			DEFORM						· · · · · · · · · · · · · · · · · · ·	=	
	Annidona			TION CLASS	SIFICATION B		(4)	(5)			
	Accident Event		(1) (2)	le announce de l	(0)		Specific	Specific	_ (6)		
	Sequence	Object	Direction of Force	Incremental Value of	(3) Deformation		ngitudinal r Lateral	Vertical or Lateral	Type of Damage	(7) Deformation	
	Number	Contacted	(degrees)	Shift	Location		ocation	Location	Distribution	Extent	JI 1
_	1 1	02	1 1 d	(ch	E		\mathcal{D}		-	d 4	
'	<u> </u>	<u> </u>	4-4-	Ψ				E	W	2 7	
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_		· ———				-					_

	COLLISION DEFORMATION CLASSIFICATION										
HIGHEST	DELTA "V"				-70						
Accident Event Sequence Number	Object Contacted	(1) (2) Direction of Force	(3) Deformation Location	(4) Longitudinal or Lateral Location	(5) Vertical or Lateral Location	(6) Type of Damage Distribution	(7) Deformation Extent				
4. \$ 1	5. <u>Ø</u> 2	6. 7 <u>2</u>	7. <u>F</u>	8. <u>D</u>	9 <u> </u>	10. <u>W</u>	11 <u></u>				
Second Hi	Second Highest Delta "V"										
12	. 13	14	15	16	17	18	19				
		CRUSI	H PROFILE	IN CENTIME	ETERS						
	The crush pring the app	profile for the dam propriate space b	nage described below. (ALL ME	in the CDC(s) all ASUREMENTS	bove should be ARE IN CENT	documented iMETERS.)					
HIGHEST [DELTA "V"										
20. 	21. 				C ₅	C ₆ -	22. ±D				
140	444	<u> 482</u>	<u> 181 4</u>	195 /	<u> </u>	<u> </u>	<u> \$60</u>				
Second Hig	ghest Delta "V"										
23. 	24. C ₁			C ₄ (<u>C, </u>	25 C ₆	25. <u>±D</u>				
						+ 					
(Coded vimpact is (250) 2 (998) N (999) L	(999) Unknown										
(For high C (250) 2	- ''										

Other damage (specify):

Unknown

(9)

(GV10=0)

DO NOT COMPLETE THE INTERIOR VEHICLE FORM.

INTERIOR VEHICLE FORM

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

National Highway Traffic Safety
Administration

nistration

1.	Primary	Sampling	Unit	Number
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2. Case Number - Stratum

DS1-95-5P-Ø13

3. Vehicle Number

Ø2

INTEGRITY

4. Passenger Compartment Integrity (00) No integrity loss

18

Yes, Integrity Was Lost Through

- (01) Windshield
- (02) Door (side)
- (03) Door/hatch (back door)
- (04) Roof
- (05) Roof glass
- (06) Side window
- (07) Rear window (backlight)
- (08) Roof and roof glass
- (09) Windshield and door (side)
- (10) Windshield and roof
- (11) Side and rear window (side window and backlight)
- (12) Windshield and side window
- (13) Door and side window
- (98) Other combination of above (specify):
- (99) Unknown

Door, Tailgate or Hatch Opening

5. LF 1 6. RF 3 7. LR Ø 8. RR Ø 9. TG/H 1

- (0) No door/gate/hatch
- (1) Door/gate/hatch remained closed and operational
- (2) Door/gate/hatch came open during collision
- (3) Door/gate/hatch jammed shut
- (8) Other (specify):
- (9) Unknown

Damage/Failure Associated with Door, Tailgate or Hatch Opening in Collision. If IV05-IV09 ± 2, Then code Ø

10. LF <u>\$\phi\$</u> 11. RF <u>\$\phi\$</u> 12. LR <u>\$\phi\$</u> 13. RR <u>\$\phi\$</u> 14. TG/H

(0) No door/gate/hatch or door not opened

Door, Tailgate or Hatch Came Open During Collision

- (1) Door operational (no damage)
- (2) Latch/striker failure due to damage
- (3) Hinge failure due to damage
- (4) Door structure failure due to damage
- (5) Door support (i.e., pillar, sill, roof side rail, etc.) failure due to damage
- (6) Latch/striker and hinge failure due to damage
- (8) Other failure (specify):
- (9) Unknown

Type of Window/Windshield Glazing

15. WS / 16. LF 2 17. RF 2 18. LR 2 19. RR 2

GLAZING

20. BL <u>2</u> 21. Roof <u>2</u> 22. Other <u>Ø</u>

- (0) No glazing
- (1) AS-1 Laminated
- (2) AS-2 Tempered
- (3) AS-3 Tempered-tinted (original)
- (4) AS-2 Tempered-with after market tint
- (5) AS-3 Tempered-tinted (with additional after market tint)
- (6) AS-14 Glass/Plastic
- (7) Glazing removed prior to accident
- (8) Other (specify):
- (9) Unknown

Window Precrash Glazing Status

23. WS 1 24. LF 2 25. RF 2 26. LR 2 27. RR 2

28. BL / 29. Roof <u>2</u> 30. Other <u>Ø</u>

- (0) No glazing
- (1) Fixed
- (2) Closed
- (3) Partially opened
- (4) Fully opened
- (7) Glazing removed prior to accident
- (9) Unknown

Glazing Damage from Impact Forces

31. WS 4 32. LF 6 33. RF 6 34. LR 6 35. RR 6

36. BL 1 37. Roof 1 38. Other 0

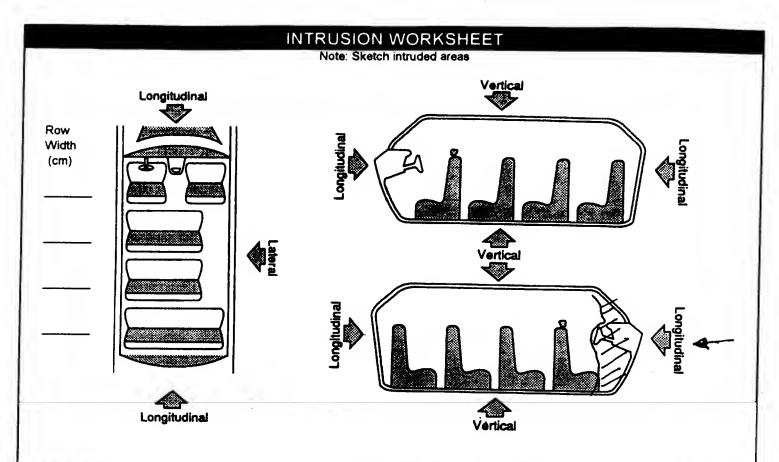
- (0) No glazing
- (1) No glazing damage from impact forces
- (2) Glazing in place and cracked from impact forces
- (3) Glazing in place and holed from impact forces
- (4) Glazing out-of-place (cracked or not) and not holed from impact forces
- (5) Glazing out-of-place and holed from Impact forces
- (6) Glazing disintegrated from impact forces
- (7) Glazing removed prior to accident
- (9) Unknown if damaged

Glazing Damage from Occupant Contact

39. WS_3_ 40. LF_\(\frac{1}{2} \) 41. RF_\(\frac{1}{2} \) 42. LR_\(\frac{1}{2} \) 43. RR_\(\frac{1}{2} \)

44. BL / 45. Roof / 46. Other Ø

- (0) No glazing
- (1) No occupant contact to glazing
- (2) Glazing contacted by occupant but no glazing damage
- (3) Glazing in place and cracked by occupant contact
- (4) Glazing in place and holed by occupant contact
- (5) Glazing out-of-place (cracked or not) by occupant contact and not holed by occupant contact
- (6) Glazing out-of-place by occupant contact and holed by occupant contact
- (7) Glazing removed prior to accident
- (8) Glazing disintegrated by occupant contact
- (9) Unknown if contacted by occupant



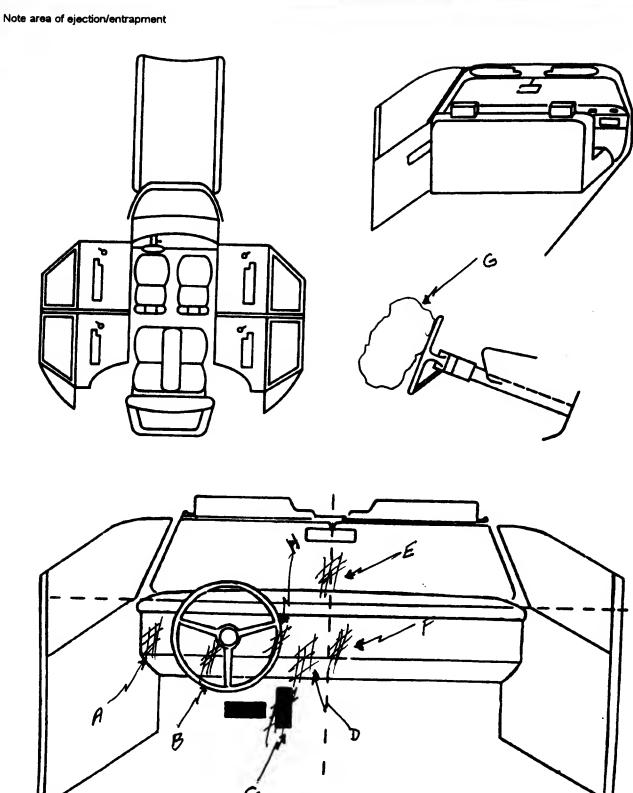
LOCATION OF INTRUSION	INTRUDED COMPONENT	COMPARISON VALUE	All Meas	surements Are In Cen INTRUDED VALUE	timeters)	INTRUSION	DOMINANT CRUSH DIRECTION
R/510E	"A"PILLAR (LOUER)	103.0		69.0	=	34.ø	Long
R/510E	"A"PILLAR (TOP.)	65.d	_	54.0	•	15.4	LONG
R/510E	INTRUMON PANE	85.¢		54.6	= \	3/· Ø	LONG
R/510E	SINE PANEL	<u>Ø</u>	_	23.0	=	23.d	LAT.
					=		
					=		
			_		=		
					=		
					=		
			_	*	#		
			_		=		
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٨.			_		=		
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OCCUPANT A	OCCUPANT AREA INTRUSION							
Note: If no intrusions, leave variables IV47-IV86 blank.	INTRUDING COMPONENT							
Location of Intruding Magnitude Crush Intrusion Component of Intrusion Direction	(01) Steering assembly							
1st 47. 2 3 48. 0 6 49. 4 50. 2	(05) Toe pan (06) A (A1/A2)-pillar (07) B-pillar (08) C-pillar							
2nd 51. $\frac{2}{3}$ 52. $\frac{\cancel{0}}{\cancel{4}}$ 53. $\frac{\cancel{4}}{\cancel{5}}$ 54. $\frac{\cancel{2}}{\cancel{5}}$	(09) D-pillar (10) Side panel - forward of the A1/A2-pillar (11) Door panel (side)							
3rd 55. <u>7</u> 3 56. <u>1</u> \$\phi\$ 57. <u>3</u> 58. <u>3</u>	 (12) Side panel - rear of the B-pillar (13) Roof (or convertible top) (14) Roof side rail (15) Windshield 							
4th 59. $\frac{2}{3}$ 60. $\frac{4}{6}$ 61. $\frac{2}{3}$ 62. $\frac{2}{3}$	(16) Windshield header (17) Window frame (18) Floor pan (includes sill) (19) Backlight header							
5th 63 64 65 66	(20) Front seat back (21) Second seat back (22) Third seat back							
6th 67 68 69 70	(23) Fourth seat back (24) Fifth seat back (25) Seat cushion (26) Back door/panel (e.g., tailgate)							
7th 71 72 73 74	(27) Other interior component (specify):							
8th 75 76 77 78	(30) Hood (31) Outside surface of this vehicle (specify): (32) Other exterior object in the environment							
9th 79 80 81 82	(specify): (33) Unknown exterior object (97) Catastrophic (98) Intrusion of unlisted component(s)							
10th 83 84 85 86	(specify): (99) Unknown							
Front Seat Fourth Seat (11) Left (41) Left (12) Middle (42) Middle (13) Right (43) Right	MAGNITUDE OF INTRUSION (1) ≥ 3 centimeters but < 8 centimeters (2) ≥ 8 centimeters but < 15 centimeters (3) ≥ 15 centimeters but < 30 centimeters (4) ≥ 30 centimeters but < 46 centimeters (5) ≥ 46 centimeters but < 61 centimeters							
Second Seat (97) Catastrophic (21) Left (98) Other enclosed (22) Middle area (specify) (23) Right	(6) ≥ 61 centimeters (7) Catastrophic (9) Unknown							
(99) Unknown Third Seat (31) Left (32) Middle (33) Right	DOMINANT CRUSH DIRECTION (1) Vertical (2) Longitudinal (3) Lateral (7) Catastrophic (9) Unknown							

	(All	Measurements Are in Centime	ters)	
COMPARISON VALUE	_	DAMAGE VALUE	=	DEFORMATION
			, =	
	_		=	d
	_	7	=	17
			-	
		•		

STEERING COLUMN	INSTRUMENT PANEL		
87. Steering Column Type (1) Fixed column (2) Tilt column (3) Telescoping column (4) Tilt and telescoping column (8) Other column type (specify):	92. Odometer Reading kilometers Code to the nearest 1,000 kilometers (000) No odometer (001) Less than 1,500 kilometers (500) 499,500 kilometers or more (999) Unknown		
(9) Unknown 88. Tilt Steering Column Adjustment (0) No tilt steering column (1) Full up (2) Between full up and center (3) Center (4) Between center and full down (5) Full down (9) Unknown 89. Telescoping Steering Column Adjustment (0) No telescoping steering column (1) Full back (2) Between full back and midpoint (3) Midpoint (4) Between midpoint and full forward (5) Full forward (9) Unknown	(999) Unknown ——————————————————————————————————		
90. Steering Rim/Spoke Deformation Code actual measured deformation to the nearest centimeter (00) No steering rim deformation (01-14) Actual measured value in centimeters (15) 15 centimeters or more (98) Observed deformation cannot be measured (99) Unknown	96. Did Glove Compartment Door Open During Collision(s)? (0) No glove compartment door (1) No - door did not open (2) Yes - door opened (9) Unknown 97. Adaptive (Assistive) Driving Equipment		
91. Location of Steering Rim/Spoke Deformation (00) No steering rim deformation Quarter Sections (01) Section A (02) Section B (03) Section C (04) Section D Half Sections (05) Upper half of rim/spoke (06) Lower half of rim/spoke (07) Left half of rim/spoke (08) Right half of rim/spoke (09) Complete steering wheel collapse (10) Undetermined location (99) Unknown	(0) No adaptive driving equipment (1) Adaptive driving equipment installed (Check all that apply.) [] Hand controls for braking/acceleration [] Steering control devices (attached to OEM steering wheel [] Steering knob attached to steering wheel [] Low effort power steering (unit or device) [] Replacement steering wheel (i.e., reduced diameter) [] Joy-stick steering controls [] Wheelchair tie-downs [] Modification to seat belts (specify): [] Additional or relocated switches (specify): [] Raised roof [] Wall-mounted head rest (used behind wheelchair) [] Other adaptive device (specify): (9) Unknown		

VEHICLE INTERIOR SKETCHES



Sketch windshield contact(s) and the damaged area(s) on the instrument panel outline (e.g., radio, glove compartment, damage to instrument panel structure.

Cross hatch contact points, draw spider webs or use other annotation as may be appropriate.

Annotate the contacted area with a letter (begin with A) and list on the Points of Occupant Contact page.

Contact	Interior Component Contacted	Occupant No. If Known	Body Region If Known	Supporting Physical Evidence	Confidence Level of Contact Point
Α	010	Ø 1	KNEE	CRACKED / DISPLACED	3
В	007	0/	KNEE/LEC	DISPLACED	3
С	254	0/	R FOOT	DISPLACED	2
D	010	01	KNEE		1
Ε	001	61	HEAD	CRACKED / DISPLACED HAIR /CRACKED	1
F	\$11	dil	UNX	CRACKED/DISPLACED	2
G	170	d)	CHEST	DEPLOYED	1
Н	004	0/	(R) HAND	TRANSFER	2
1	Fre-v	176-	67,777.12		
J					
К					
L				•	
М		•			
N					

INO	11
(001)	Windshield
(002)	Mirror
(003)	Sunvisor
(004)	Steering wheel rim
(005)	
(006)	Steering wheel (combination
, ,	of codes 004 and 005)
(007)	
	selector lever, other
	attachment
(800)	Cellular telephone or CB radio
(009)	Add on equipment(e.g.,
	tapedeck, air conditioner)
(010)	Left instrument panel and
	below
(011)	Center instrument panel and
	below
(012)	Right instrument panel and
	below
(013)	Glove compartment door
(014)	Knee bolster
(015)	Windshield including one or
	more of the following: front
	header, A (A1/A2)-pillar,
	instrument panel, mirror, or
	steering assembly (driver side
	only)
(016)	Windshield including one or
	more of the following: front

header, A (A1/A2)-pillar,

exterior object, (specify):

(passenger side only) (017) Windshield reinforced by

(019) Other front object (specify):

instrument panel, or mirror

LEFT SIDE INT (051) Left side interior surface, excluding hardware or armrests (052) Left side hardware or armrest (053) Left A (A1/A2)-pillar (054) Left B-pillar (055) Other left pillar (specify): Left side window glass (056)(057) Left side window frame (058)Left side window sill (059) Left side window glass including one or more of the following: frame, window sill, (1 A (A1/A2)-pillar, B-pillar, or roof side rail. (060) Other left side object (specify): RIGHT SIDE (101) Right side interior surface, excluding hardware or armrests (102) Right side hardware or armrest (1 (103) Right A (A1/A2)-pillar (104) Right B-pillar (105) Other right pillar (specify):

(106) Right side window glass

(107) Right side window frame

(109) Right side window glass including one or more of the following: frame, window sill, A (A1/A2)-pillar, B-pillar, or

roof side rail.

(110) Other right side object (specify):

Right side window sill

(108)

17			
_			
RIOR	COMPONENTS	REAR	
		(301)	Backlight (rear window)
NTERI	OR	(302)	
(151)	Seat, back support		door, etc.
(152)		(303)	
(153)		•	
	frame attachment point		
(154)	Other restraint system	ADAP	TIVE (ASSISTIVE) DRIVING
	component (specify):		PMENT
		(401)	Hand controls for
(155)	Head restraint system		braking/acceleration
(160)	Other occupants (specify):	(402)	Steering control devices
		• '	(attached to OEM steering
(161)	Interior loose objects		wheel)
(162)		(403)	Steering knob attached to
		` '	steering wheel
(163)	Other interior object (specify):	(405)	Replacement steering wheel
		. ,	(i.e., reduced diameter)
		(406)	Joy stick steering controls
AIR B	AG	(407)	Wheelchair tie-downs
(170)	Air bag-driver side	(408)	Modification to seat belts,
(175)		(/	(specify):
` ′	cover-driver side		(//-
(180)	Air bag-passenger side	(409)	Additional or relocated
(185)		(,	switches, (specify):
(,	cover-passenger side		comence, (opeany).
(190)		(410)	Raised roof
()	cuioi un cog (opcony)	(411)	Wall mounted head rest (used
(195)	Other air bag compartment	(411)	behind wheel chair)
(,	cover (specify)	(412)	Other adaptive device
	cover (openity)	(• • • •)	(specify):
			1-F
ROOF	=		
(201)	Front header		
	Rear header		
	Roof left side rail		
(204)	Roof right side rail		
(205)			
FLOO	R		
(251)	• •		
(252)	Floor or console mounted		
(202)	transmission lever, including		
	console		
(253)			
(200)	Serving DidAG Hattule		

CONFIDENCE LEVEL OF CONTACT POINT Certain Probable (2) (3) (9) Possible Unknown

Foot controls including parking brake

		N	JANUAL REST	RAINTS		
NOTES	Encode the applicable data for systems should be assessed of	r each sea during the	at position in the vehi vehicle inspection the	cle. The attribute	for the variable	e may be found below. Restra
	If a Child safety seat is presen	t, encode t	the data on the back o	f this page.		
	If the vehicle has automatic re	straints ava	ailable, encode the ap	propriate data on	the back of the	previous page.
			Left	Ce	nter	Right
	Availability		4	Q	j	4
F	Evidence of usage		04	B	8	64
l R	Used in this crash?		00	A	rø	00
R S T	Proper Use		B	1		8
T	Failure Modes		∂	8		1 3
	Anchorage Adjustment			6		7
	Availability		4	3		4
s	Evidence of usage		<i>ත්</i> ර	00		30
Ĕ	Used in this crash?		COD	600		do
ØECOZD	Proper Use		ø	Ø		7
Ŋ	Failure Modes		Ø	Ø		ð
	Anchorage Adjustment		ĺ	6		/
	Availability		7			
0	Evidence of usage					
T	Used in this crash?					
HER	Proper Use					
Ŕ	Failure Modes					
	Anchorage Adjustment	7				
(1) E (2) S (3) L (4) L (5) E Integr. (6) S (7) L (8) O	None available Belt removed/destroyed Bhoulder belt Lap belt Lap and shoulder belt Belt available - type unknown al Belt Partially Destroyed Bhoulder belt (lap belt estroyed/removed) ap belt (shoulder belt estroyed/removed) Other belt (specify):	(0) (1) (2) Belt (3) (4) (5) (6) (7)	None used or not available used property Belt used property with Used Improperty Shoulder belt worn und Shoulder belt worn belt Belt worn around more Lap belt worn on abdor Lap belt or lap and sho improperty with child so (specify): Other improper use of system (specify):	der arm hind back or seat than one person men judder belt used afety seat	(1) No up should Adjust Ancho (2) In full (3) In mid (4) In full (5) Positio (9) Unkno	oulder beit per anchorage adjustment for der beit table shoulder Beit Upper orage up position position down position on unknown wn if position has adjustable anchorage adjustment
Manual	Antico Dali Contact II	(9)	Unknown			
(00)	Active) Belt System Use None used, not available, or belt removed/destroyed		Active) Belt Failure Mod	des During		
(01)	Inoperable (specify):	Accident (0)	No manual belt used or	not available		
	Shoulder belt	(1)	No manual belt failure(
1	Lap beit Lap and shoulder belt	(2)	Torn webbing (stretche	d webbing not		
	Belt used - type unknown	(3)	included) Broken buckle or latchp	late		
(80)	Other belt used (specify):	(4)	Upper anchorage separ	rated		
	Shoulder belt used with child safety seat	(5)	Other anchorage separ (specify):	ated		
	Lap belt used with child safety seat	(6)	Broken retractor			
	Lap and shoulder belt used with child safety seat	(7)	Combination of above (specify):		
(15)	Belt used with child safety seat - type unknown	(8)	Other manual belt failur	e (specify):		
(Other belt used with child safety seat specify):	(9)	Unknown			No. 13
(99) L	Jnknown if belt used					

AUTOMATIC RESTRAINTS

NOTES: Encode the data for each applicable front seat position. The attribute for the variables may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

F	VIF	₹	B	A	G	S

		Left Front	Right Front	Other
F	Availability/Function		Ø.	0
R	Deployment	1	Ø	Ø,
T	Failure	1	Ø	1

Air Bag System Availability/Function

- (0) Not equipped/not available
- (1) Air bag

Non-functional

- (2) Air bag disconnected (specify):
- (3) Air bag not reinstalled
- (9) Unknown

Are There Indications of Air Bag System Failure? (This Occupant Position)

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (9) Unknown

Frontal Air Bag System Deployment (This Occupant Position)

- (0) Not equipped/not available
- (1) Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, accident sequence undetermined
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- (9) Unknown

Air Bag(s) Deployment, <u>Other Than First</u> Seat Frontal (This Occupant Position)

- (0) Not equipped with an "other" air bag
- (1) Deployed during accident (as a result of impact)
- (2) Deployed inadvertently just prior to accident
- (3) Deployed, details unknown
- (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical)
- (5) Unknown if deployed
- (7) Nondeployed
- (9) Unknown

AUTOMATIC BELTS

		Left	Right
	Availability/Function		
F	Use	d	h
R	Туре	\mathcal{O}	7
S T	Proper Use		
	Failure Modes		

Automatic (Passive) Belt System Availability/Function

- (0) Not equipped/not available
- (1) 2 point automatic belts
- (2) 3 point automatic belts
- (3) Automatic belts type unknown

Non-functional

- (4) Automatic belts destroyed or rendered inoperative
- (9) Unknown

Automatic (Passive) Belt System Use

- (0) Not equipped/not available/destroyed or rendered inoperative
- (1) Automatic belt in use
- (2) Automatic belt not in use (manually disconnected, motorized track inoperative)
- (3) Automatic belt use unknown
- (9) Unknown

Automatic (Passive) Belt System Type

- (0) Not equipped/not available
- (1) Non-motorized system
- (2) Motorized system
- (9) Unknown

Proper Use of Automatic (Passive) Belt System

- (0) Not equipped/not available/not used
- (1) Automatic belt used property
- (2) Automatic belt used properly with child safety seat

Automatic Belt Used Improperty

- (3) Automatic shoulder belt worn under arm
- (4) Automatic shoulder belt worn behind back
- (5) Automatic belt worn around more than one person
- (6) Lap portion of automatic belt worn on abdomen
- (7) Automatic lap and shoulder belt or

automatic shoulder belt used improperly

with child safety seat (specify):

- (8) Other improper use of automatic belt system (specify):_____
- (9) Unknown

Automatic (Passive) Belt Fallure Modes During Accident

- (0) Not equipped/not available/not in use
- (1) No automatic belt failure(s)
- (2) Torn webbing (stretched webbing not included)
- (3) Broken buckle or latchplate
- (4) Upper anchorage separated
- (5) Other anchorage separated (specify):
- (6) Broken retractor
- (7) Combination of above (specify):
- (8) Other automatic belt failure (specify):
- (9) Unknown

FIRST SEAT FRONTAL AIR BAGS

NOTES: Encode the applicable data for the driver and first seat passenger in the vehicle. The attribute for the variable may be found below. Restraint systems should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

	Driver	Passenger
Type of air bag?		
Flaps open at tear points?	2	
Flaps damaged?		
Air bag damaged?	Ø1	
Source of air bag damage	Ø/	
Air bag tethered?	a	
Air bag have vent ports?	2	
Other occupant contact air bag?	φ	
Occupant wearing eyewear?	ģ	

Type of Air Bag

- (0) Not equipped/not available
- (1) Original manufacturer installed system
- (2) Retrofitted air bag
- (3) Replacement air bag
- (8) Unknown type of air bag
- (9) Unknown

Did Air Bag Module Cover Flap(s) Open At Designated Tear Points?

- (0) Not equipped/not available
- (1) No
- (2) Yes
- (3) Deployed, unknown if flap(s) opened at designated tear points
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Were Air Bag Module Cover Flap(s) Damaged?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if air bag module cover flap(s) damaged
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Was There Damage To The Air Bag?

- (00) Not equipped/not available
- (01) Not damaged

Yes - Air Bag Damage

- (02) Ruptured
- (03) Cut
- (04) Torn
- (05) Holed
- (06) Burned (07) Abraded
- (88) Other damage (specify):
- (95) Damaged, details unknown
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

Source of Air Bag Damage

- (00) Not equipped/not available
- (01) Not damaged
- (02) Object worn by occupant, (specify):
- (03) Object carried by occupant, (specify):
- (04) Adaptive/assistive controls, (specify):
- (05) Fire in vehicle
- (06) Thermal burns
- (07) Rescue or emergency efforts
- (88) Other damage source (specify):
- (95) Damaged, unknown source
- (96) Deployed, unknown if damaged
- (97) Not deployed
- (98) Unknown if deployed
- (99) Unknown

Was The Air Bag Tethered?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of tether straps):
- (3) Deployed, unknown if tethered
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Did The Air Bag Have Vent Ports?

- (0) Not equipped/not available
- (1) No
- (2) Yes (specify number of vent ports):
- (3) Deployed, unknown if vent ports present
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Was the Air Bag in this Occupant's Position Contacted by Another Occupant?

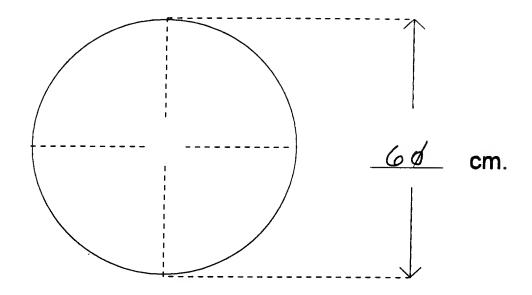
- (0) Not equipped/not available
- (1) No
- (2) Yes (specify):
- (3) Deployed, unknown if other occupant contact to air bag
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

Was This Occupant Wearing Eye-wear?

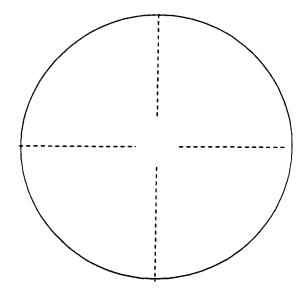
- (0) Not equipped/not available
- (1) No
- (2) Eyeglasses/sunglasses
- (3) Contact lenses
- (4) Deployed, unknown if eyewear worn
- (7) Not deployed
- (8) Unknown if deployed
- (9) Unknown

DRIVER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Front)



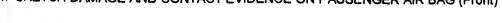
2. SKETCH DAMAGE AND CONTACT EVIDENCE ON DRIVER AIR BAG (Back)

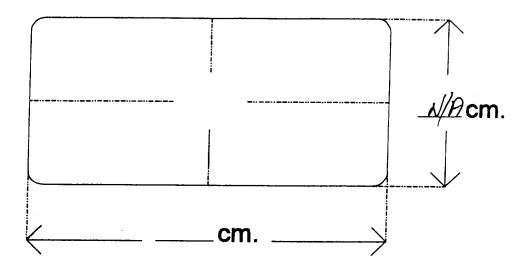


FIRE AR BAC	SISKE FCHES (Contid)
3. DRIVER AIR BAG MODULE COVER FLAP SIZE (DOUBLE) a. Upper Flap width (Wu)/ width (WL) height (Hu)/ height (HL) H, H, H,	
4. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP AND SIZE	5. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS
4	
*.	6. SKETCH LOCATION OF CIRCULAR AIR BAG VENT PORTS

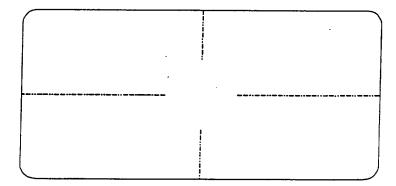
PASSENGER AIR BAG DAMAGE AND CONTACT SKETCHES

1. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Front)





2. SKETCH DAMAGE AND CONTACT EVIDENCE ON PASSENGER AIR BAG (Back)



	AG SKETCHES (Cont'd)
3. PASSENGER AIR BAG MODULE COVER FLAP SIZE (SINGLE) a. Flap	4. PASSENGER AIR BAG MODULE COVER FLAP SIZE (DOUBLE)
width (W)	a. Upper Flap b. Lower Flap
height (H)	width (W _U) width (W _L)
	height (H _U) height (H _L)
H H	#. W. — H. MA
5. SKETCH OF OTHER TYPE OF AIR BAG MODULE FLAP AND SIZE	6. SKETCH OF OTHER TYPE OF AIR BAG VENT PORTS
	7. SKETCH LOCATION OF RECTANGULAR AIR BAG
	VENT PORTS
	10 11 12 1 2
	8 7 6 5 4
^	

HEAD RESTRAINTS/SEAT EVALUATION

NOTES: Encode the applicable data for each seat position in the vehicle. The attribute for these variables may be found at the bottom of the page. Head restraint type/damage and seat type/performance should be assessed during the vehicle inspection then coded on the Occupant Assessment Form.

		Left	Center	Right
	Head Restraint Type/Damage	3		3
F	Seat Type	<i>ゆ</i> ス		Ø2
I R	Seat Performance			1
S	Seat Orientation			
	Seat Track Position	9		9
	Seat Back Incline Pre/Post Impact	9		9
	Head Restraint Type/Damage	j	d	
S	Seat Type	Ø5	05	\$5
S E C	Seat Performance	1		7
0	Seat Orientation		i	
N D	Seat Track Position	D /	φ/	6/
	Seat Back Incline Pre/Post Impact	ΦΙ	ø /	61
	Head Restraint Type/Damage			
Т	Seat Type		/	
Ħ	Seat Performance			
Ŕ	Seat Orientation			
D	Seat Track Position			/
	Seat Back Incline Pre/Post Impact		/	
	Head Restraint Type/Damage			
O T	Seat Type		1	
H 4	Seat Performance			
E	Seat Orientation			
	Seat Track Position			
Γ	Seat Back Incline Pre/Post Impact	/		

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE
(I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

HEAD RESTRAINTS/SEAT EVALUATION

Head Restraint Type/Damage by Occupant at This Occupant **Position**

- (0) No head restraints
- Integral no damage Integral damaged during (2) accident
- (3) Adjustable no damage(4) Adjustable damaged during accident
- Add-on no damage Add-on damaged during accident

Seat Type (this Occupant Position) (00) Occupant not seated or no seat

Bucket with folding back

Bench with separate back

Bench with folding back(s)

Pedestal (i.e., column

Other seat type (specify):

Box mounted seat (i.e., van

Split bench with separate back

Split bench with folding back(s)

(8) Other Specify):

(01)

(02)

(03)

(04)

(05)

(06)

(80)

(09)

(10)

(99)

(9) Unknown

Bucket

Bench

cushions

cushions

supported)

type)

Unknown

Seat Performance (this Occupant Position)

- Occupant not seated or no seat (0)
- No seat performance failure(s)
- Seat adjusters failed
- (3) Seat back folding locks or "seat back" failed (specify):
- Seat tracks/anchors failed
- Deformed by impact of occupant
- (6) Deformed by passenger compartment intrusion (specify):
- (7) Combination of above (specify):
- (8) Other (specify):
- (9) Unknown

- Occupant not seated or no seat
- Forward facing seat
- Rear facing seat
- (3) Side facing seat (inward)
- Side facing seat (outward)
- (9) Unknown

Seat Orientation (this Occupant Position)

- (8) Other (specify):

Seat Track Adjusted Position Prior To

- **Impact** Occupant not seated or no seat
- (1) Non-adjustable seat track

Adjustable Seat Track

- Seat at forward most track position
- (3) Seat between forward most and middle track positions
- Seat at middle track position
- Seat between middle and rear most track positions
- Seat at rear most track position
- (9) Unknown

Seat Back incline Prior and Post impact

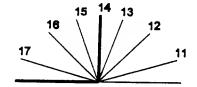
- Occupant not seated or no seat (OO)
- (01)Not adjustable
- Upright prior to impact Moved to completely rearward (11)position
- (12)Moved to rearward midrange position
- (13)Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17)Moved to completely forward position

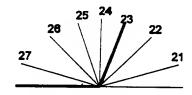
Slightly reclined prior to impact

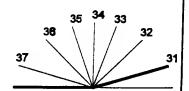
- Moved to completely rearward position
- Moved to rearward midrange (22)position
- (23)Retained pre-impact postion
- (24)Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- Moved to completely forward position

Completely reclined prior to impact

- Retained pre-impact position
- (32) Moved to rearward midrange position
- (33)Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36)Moved to forward midrange position
- Moved to completely forward position
- (99) Unknown







Coding diagrams for Seat Back Incline Position Prior and Post Impact

DESCRIBE ANY INDICATION OF ABNORMAL OCCUPANT POSTURE (I.E., UNUSUAL OCCUPANT CONTACT PATTERN)

Occupant Number					
Type of Child Safety Seat					
Child Safety Seat Orientation					
3. Child Safety Seat Harness Usage					
4. Child Safety Seat Shield Usage					
5. Child Safety Seat Tether Usage					
6. Child Safety Seat Make/Model	Specify Below for Each Child Safety Seat				
. Type of Child Safety Seat	Child Safety Seat Harness Usage				
 (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat (7) Other type child safety seat (specify) 	 Child Safety Seat Shield Usage Child Safety Seat Tether Usage Note: Options Below Are Used for Variables 3-5 (00) No child safety seat 				
(8) Unknown child safety seat type (9) Unknown if child safety seat used	Not Designed with Harness/Shield/Tether (01) After market harness/shield/tether				
Child Safety Seat Orientation (00) No child safety seat	added, not used (02) After market harness/shield/tether used (03) Child safety seat used, but no after market				
Designed for Rear Facing for This Age/Weight (01) Rear facing	harness/shield/tether added (09) Unknown if harness/shield/tether added or used				
(02) Forward facing (08) Other orientation (specify):	Designed With Harness/Shield/Tether (11) Harness/shield/tether not used (12) Harness/shield/tether used				
(09) Unknown orientation	(19) Unknown if harness/shield/tether used				
Designed for Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify):	Unknown If Designed With Harness/Shield/Tether (21) Harness/shield/tether not used (22) Harness/shield/tether used (29) Unknown if harness/shield/tether used				
(19) Unknown orientation	(99) Unknown if child safety seat used				
Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing	 Child Safety Seat Make/Model (Specify make/model and occupant number) 				
(22) Forward facing (28) Other orientation (specify):					
(29) Unknown orientation	•				

Complete the following if the resevenicle. Code the appropriate data EJECTION No [/] Yes [] Describe indications of ejection and	on the Occupa	ant Assess	ment Form.		ejected from or	entrapped in
Occupant Number						
Ejection						
(Note on Vehicle Interior Sketch) Ejection Area						
Ejection Medium						
Medium Status						
ection (1) Complete ejection (2) Partial ejection (3) Ejection, Unknown degree (9) Unknown ectlon Area (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear	pickup, etc.) (specify):		(5) Integral structure (8) Other medium (specify): (9) Unknown Medium Status (immediately Prior to impact) (1) Open (2) Closed (3) Integral structure (9) Unknown			
TRAPMENT No [V Yes [scribe entrapment mechanism:						
nponent(s):						



National Highway Traffic Safety Administration	NATIONAL ACCIDENT SAMPLING SYSTE CRASHWORTHINESS DATA SYSTE
Primary Sampling Unit Number	OCCUPANT'S SEATING
2. Case Number - Stratum DS/-95-SP-Ø/3	10. Occupant's Seat Position / /
3. Vehicle Number	Front Seat (11) Left side
4. Occupant Number Ø /	(12) Middle
OCCUPANT'S CHARACTERISTICS	(13) Right side (14) Other (specify):
5. Occupant's Age Code actual age at time of accident. (00) Less than one year old (specify by month): (97) 97 years and older (99) Unknown 6. Occupant's Sex	(15) On or in the lap of another occupant Second Seat (21) Left side (22) Middle (23) Right side (24) Other (specify): (25) On or in the lap of another occupant Third Seat
(1) Male	(31) Left side (32) Middle
(2) Female-not reported pregnant(3) Female-pregnant-1st trimester(1st-3rd month)	(33) Right side
(4) Female-pregnant-2nd trimester(4th-6th month)(5) Female-pregnant-3rd trimester(7th-9th month)	(34) Other (specify):(35) On or in the lap of another occupant
(6) Female-pregnant-term unknown (9) Unknown 7. Occupant's Height	Fourth Seat (41) Left side (42) Middle (43) Right side (44) Other (specify):
Code actual height to the nearest centimeter. (999) Unknown	(45) On or in the lap of another occupant (97) In or on unenclosed area
inches X 2.54 = centimeters	(98) Other seat (specify): (99) Unknown
8. Occupant's Weight Code actual weight to the nearest kilogram. (999) Unknown	11. Occupant's Posture (0) Normal posture
pounds X .4536 =kilograms 9. Occupant's Role	Abnormal posture (1) Kneeling or standing on seat (2) Lying on or across seat (3) Kneeling, standing or sitting in front of seat
(1) Driver (2) Passenger (9) Unknown	(4) Sitting sideways or turned to talk with another occupant or to look out a rear window (5) Sitting on a console (6) Lying back in a reclined seat position (7) Bracing with feet or hands on a surface in front of seat (8) Other abnormal posture (specify): (9) Unknown
	BEST AVAILABLE

	CHOME	NIRAPWENI
12. Ejection (0) No ejection (1) Complete ejection (2) Partial ejection (3) Ejection, unknown degree (9) Unknown	<u></u>	15. Medium Status (Immediately Prior To Impact) (0) No ejection (1) Open (2) Closed (3) Integral structure (9) Unknown
13. Ejection Area (0) No ejection (1) Windshield (2) Left front (3) Right front (4) Left rear (5) Right rear (6) Rear (7) Roof (8) Other area (e.g., back of pickup, etc.) (specify): (9) Unknown	<u>φ</u>	16. Entrapment (0) Not entrapped/exit not inhibited (1) Entrapped/pinned - mechanically restrained (2) Could not exit vehicle due to jammed doors, fire, etc. (specify):
14. Ejection Medium (0) No ejection (1) Door/hatch/tailgate (2) Nonfixed roof structure (3) Fixed glazing (4) Nonfixed glazing (specify): (5) Integral structure (8) Other medium (specify): (9) Unknown	<u>φ</u>	vehicle (1) Removed from vehicle while unconscious or disoriented (2) Removed from vehicle due to injuries (3) Exited vehicle with some assistance (4) Exited vehicle under own power (5) Occupant fully ejected (9) Unknown

	BELT SYSTE	EM FUNCTION
18.	Manual (Active) Belt System Availability (0) None available (1) Belt removed/destroyed (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt	22. Shoulder Belt Upper Anchorage Adjustment (0) No shoulder belt (1) No upper anchorage adjustment for shoulder belt Adjustable shoulder Belt Upper Anchorage (2) In full up position
	(5) Belt available—type unknown Integral Belt Partially Destroyed (6) Shoulder belt (lap belt destroyed/removed) (7) Lap belt (shoulder belt destroyed/removed) (8) Other belt (specify): (9) Unknown	(3) In mid position (4) In full down position (5) Position unknown (9) Unknown if position has adjustable upper anchorage adjustment 23. Automatic (Passive) Belt System Availability/ Function
19.	Manual (Active) Belt System Use (00) None used, not available, or belt removed/destroyed (01) Inoperative (specify): (02) Shoulder belt (03) Lap belt	 (0) Not equipped/not available (1) 2 point automatic belts (2) 3 point automatic belts (3) Automatic belts - type unknown Non-functional (4) Automatic belts destroyed or rendered inoperative
	 (04) Lap and shoulder belt (05) Belt used—type unknown (08) Other belt used (specify): (12) Shoulder belt used with child safety seat (13) Lap belt used with child safety seat (14) Lap and shoulder belt used with child safety seat (15) Belt used with child safety seat—type unknown (18) Other belt used with child safety seat (specify): (99) Unknown if belt used 	(9) Unknown 24. Automatic (Passive) Belt System Use (0) Not equipped/not available/destroyed or rendered inoperative (1) Automatic belt in use (2) Automatic belt not in use (manually disconnected, motorized track inoperative) (specify): (3) Automatic belt use unknown (9) Unknown 25. Automatic (Passive) Belt System Type
20.	Proper Use of Manual (Active) Belts (0) None used or not available (1) Belt used properly (2) Belt used properly with child safety seat Belt Used Improperly	(0) Not equipped/not available (1) Non-motorized system (2) Motorized system (9) Unknown 26. Proper Use of Automatic (Passive) Belt System (0) Not equipped/not available/not used (1) Automatic belt used properly
((3) Shoulder belt worn under arm (4) Shoulder belt worn behind back or seat (5) Belt worn around more than one person (6) Lap belt worn on abdomen (7) Lap belt or lap and shoulder belt used improperly with child safety seat (specify): (8) Other improper use of manual belt system (specify): 	(2) Automatic belt used properly with child safety seat Automatic Belt Used Improperly (3) Automatic shoulder belt worn under arm (4) Automatic shoulder belt worn behind back (5) Automatic belt worn around more than one person (6) Lap portion of automatic belt worn on abdomen (7) Automatic lap and shoulder belt ar
21. [[()	9) Unknown Manual (Active) Belt Failure Modes Ouring Accident 0) No manual belt used or not available 1) No manual belt failure(s) 2) Torn webbing (stretched webbing not included)	 (7) Automatic lap and shoulder belt or automatic shoulder belt used improperly with child safety seat (specify): (8) Other improper use of automatic belt system (specify): (9) Unknown
() () ()	3) Broken buckle or latchplate 4) Upper anchorage separated 5) Other anchorage separated (specify): 6) Broken retractor 7) Combination of above (specify): 8) Other manual belt failure (specify):	27. Automatic (Passive) Belt Failure Modes During Accident (0) Not equipped/not available/not in use (1) No automatic belt failure(s) (2) Torn webbing (stretched webbing not included) (3) Broken buckle or latchplate (4) Upper anchorage separated (5) Other anchorage separated (specify):
(!	Dinknown	 (6) Broken retractor (7) Combination of above (specify); (8) Other automatic belt failure (specify); (9) Unknown

POLICE REPORTED RESTRAINT USE	AIR BAG SYSTEM FUNCTION
28. Police Reported Belt Use (0) None used (1) Police did not indicate belt use (2) Shoulder belt (3) Lap belt (4) Lap and shoulder belt (5) Belt used, type not specified (6) Child safety seat (7) Automatic belt (8) Other type belt, (specify):	30. Frontal Air Bag System Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown
(9) Police indicated "unknown" 29. Police Reported Air Bag Availability/Function (0) No air bag available (1) Police did not indicate air bag availability/function (2) Deployed (3) Not deployed (4) Unknown if deployed (9) Police indicated "unknown"	31. Frontal Air Bag System Deployment (This Occupant Position) (0) Not equipped/not available (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
Check the Primary Source Used In Determining Belt Use. [] Not equipped/not available/destroyed or rendered inoperative [] Vehicle inspection [] Official injury data [] Driver/occupant interview [] Other (specify): [] Unknown if belt used	32. Other Than First Seat Frontal Air Bag Availability/Function (This Occupant Position) (0) Not equipped/not available (1) Air bag Non-functional (2) Air bag disconnected (specify): (3) Air bag not reinstalled (9) Unknown Specify type of "other" air bag present: 33. Air Bag(s) Deployment, Other Than First Seat Frontal (This Occupant Position) (0) Not equipped with an "other" air bag (1) Deployed during accident (as a result of impact) (2) Deployed inadvertently just prior to accident (3) Deployed, details unknown (4) Deployed as a result of a noncollision event during accident sequence (e.g., fire, explosion, electrical) (5) Unknown if deployed (7) Nondeployed (9) Unknown
,	34. Are There Indications of Air Bag System Failure? (This Occupant Position) (0) Not equipped/not available (1) No (2) Yes (specify): (9) Unknown

FIRST SEAT FRONTAL AIR	BAG SYSTEM EVALUATION
35. Had Vehicle Been in Previous Accident(s)? (0) Not equipped/not available (1) No previous accidents Yes (2) Previous accident(s) without deployment(s) (3) One previous accident with deployment (4) More than one previous accident with at least one deployment (8) Previous accidents, unknown deployment status (9) Unknown	40. Longitudinal Component of Delta V For Air Bag Deployment Impact (-000) Not equipped/not available Code the value of the delta V for the impact that initiated the air bag deployment (-996) Deployment, unknown longitudinal Delta V (-997) Not deployed (-998) Unknown if deployed (-999) Unknown
36. Type of Air Bag (0) Not equipped/not available (1) Original manufacturer installed system (2) Retrofitted air bag (3) Replacement air bag (8) Unknown type of air bag (9) Unknown	41. Did Air Bag Module Cover Flap(s) Open At Designated Tear Points? (0) Not equipped/not available (1) No (2) Yes (3) Deployed, unknown if flap(s) opened at designated tear points (7) Not deployed (8) Unknown if deployed (9) Unknown
37. Had Any Prior Maintenance/Service Been Performed On This Air Bag System? (0) Not equipped/not available (1) No prior maintenance (2) Yes, prior maintenance (specify): (9) Unknown 38. Air Bag Deployment Accident Event Sequence Number (00) Not equipped/not available Code the accident event sequence number that initiated the air bag deployment (96) Deployed, unknown event (97) Not deployed (98) Unknown if deployed	42. Were Air Bag Module Cover Flap(s) Damaged? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if air bag module cover flap(s) damaged (7) Not deployed (8) Unknown if deployed (9) Unknown 43. Was There Damage To The Air Bag? (00) Not equipped/not available (01) Not damaged Yes - Air Bag Damage
(99) Unknown 39. CDC For Air Bag Deployment Impact (0) Not equipped/not available (1) Highest delta V (2) Second highest delta V (3) Other non-coded delta V (specify): (6) Deployed, unknown event (7) Not deployed (8) Unknown if deployed (9) Unknown	(02) Ruptured (03) Cut (04) Torn (05) Holed (06) Burned (07) Abraded (88) Other damage (specify): (95) Damaged, details unknown (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown

FIRST SEAT FRONTAL AIR BAG SYSTEM EVALUATION continued	HEAD RESTRAINT AND SEAT EVALUATION
44. Source of Air Bag Damage (00) Not equipped/not available (01) Not damaged (02) Object worn by occupant, (specify): (03) Object carried by occupant, (specify):	49. Head Restraint Type/Damage by Occupant at This Occupant Position (0) No head restraints (1) Integral—no damage (2) Integral—damaged during accident (3) Adjustable—no damage (4) Adjustable—damaged during accident
(04) Adaptive/assistive controls, (specify): (05) Fire in vehicle (06) Thermal burns (07) Rescue or emergency efforts (88) Other damage source (specify): (95) Damaged, unknown source (96) Deployed, unknown if damaged (97) Not deployed (98) Unknown if deployed (99) Unknown	(5) Add-on—no damage (6) Add-on—damaged during accident (8) Other (specify): (9) Unknown 50. Seat Type (this Occupant Position) (00) Occupant not seated or no seat (01) Bucket (02) Bucket with folding back (03) Bench (04) Bench with separate back cushions (05) Bench with folding back(s)
45. Was The Air Bag Tethered? (0) Not equipped/not available (1) No (2) Yes (specify number of tether straps): (3) Deployed, unknown if tethered (7) Not deployed (8) Unknown if deployed (9) Unknown	(06) Split bench with separate back cushions (07) Split bench with folding back(s) (08) Pedestal (i.e., column supported) (09) Box mounted seat (i.e., van type) (10) Other seat type (specify): (99) Unknown 51. Seat Orientation (this Occupant Position) (0) Occupant not seated or no seat
46. Did The Air Bag Have Vent Ports? (0) Not equipped/not available (1) No (2) Yes (specify number of vent ports): (3) Deployed, unknown if vent ports present (7) Not deployed (8) Unknown if deployed	(1) Forward facing seat (2) Rear facing seat (3) Side facing seat (inward) (4) Side facing seat (outward) (8) Other (specify): (9) Unknown 52. Seat Track Adjusted Position Prior To Impact
(9) Unknown 47. Was the Air Bag in this Occupant's Position Contacted by Another Occupant? (0) Not equipped/not available (1) No (2) Yes (specify): (3) Deployed, unknown if other occupant contact to air bag (7) Not deployed (8) Unknown if deployed (9) Unknown	 (0) Occupant not seated or no seat (1) Non-adjustable seat track Adjustable Seat Track (2) Seat at forward most track position (3) Seat between forward most and middle track positions (4) Seat at middle track position (5) Seat between middle and rear most track positions (6) Seat at rear most track position (9) Unknown
8. Was This Occupant Wearing Eye-wear? (0) Not equipped/not available (1) No (2) Eyeglasses/sunglasses (3) Contact lenses (4) Deployed, unknown if eyewear worn (7) Not deployed (8) Unknown if deployed (9) Unknown	BEST AVAILABLE

HEAD RESTRAINT AND SEAT EVALUATION continued

- 53. Seat Back Incline Prior and Post Impact
 - (00) Occupant not seated or no seat
 - (01) Not adjustable

Upright prior to impact

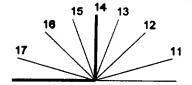
- (11) Moved to completely rearward position
- (12) Moved to rearward midrange position
- (13) Moved to slightly rearward position
- (14) Retained pre-impact position
- (15) Moved to slightly forward position
- (16) Moved to forward midrange position
- (17) Moved to completely forward position

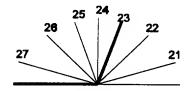
Slightly reclined prior to impact

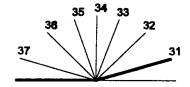
- (21) Moved to completely rearward position
- (22) Moved to rearward midrange position
- (23) Retained pre-impact position
- (24) Moved to upright position
- (25) Moved to slightly forward position
- (26) Moved to forward midrange position
- (27) Moved to completely forward position

Completely reclined prior to impact

- (31) Retained pre-impact position
- (32) Moved to rearward midrange position
- (33) Moved to slightly rearward position
- (34) Moved to upright position
- (35) Moved to slightly forward position
- (36) Moved to forward midrange position
- (37) Moved to completely forward position
- (99) Unknown
- 54. Seat Performance (this Occupant Position)
 - (0) Occupant not seated or no seat
 - (1) No seat performance failure(s)
 - (2) Seat adjusters failed
 - (3) Seat back folding locks or "seat back" failed (specify):
 - (4) Seat track/anchors failed
 - (5) Deformed by impact of occupant
 - (6) Deformed by passenger compartment intrusion, (specify):
 - (7) Combination of above (specify):
 - (8) Other (specify):
 - (9) Unknown







CHILD SAFETY SEAT 55. Child Safety Seat Make/Model (000) No child safety seat Applicable codes are found in your NASS CDS Data Collection, Coding and Editing (950) Built-in child safety seat (997) Other make/model (specify): (998) Unknown make/model (999) Unknown if child safety seat used 56. Type of Child Safety Seat (0) No child safety seat (1) Infant seat (2) Toddler seat (3) Convertible seat (4) Booster seat - with shield (5) Booster seat - without shield (7) Other type child safety seat (specify): (8) Unknown child safety seat type (9) Unknown if child safety seat used 57. Child Safety Seat Orientation (00) No child safety seat Designed for Rear Facing for This Age/Weight (01) Rear facing (02) Forward facing (08) Other orientation (specify): (09) Unknown orientation Designed For Forward Facing for This Age/Weight (11) Rear facing (12) Forward facing (18) Other orientation (specify): (19) Unknown orientation Unknown Design or Orientation For This Age/Weight, or Unknown Age/Weight (21) Rear facing (22) Forward facing (28) Other orientation (specify): (29) Unknown orientation (99) Unknown if child safety seat used

- 58. Child Safety Seat Harness Usage

 59. Child Safety Seat Shield Usage
- 60. Child Safety Seat Tether Usage

Note: Options below applicable to Variables OA58-OA60.
(00) No child safety seat

Not Designed With Harness/Shield/Tether

- (01) After market harness/shield/tether added, not used
- (02) After market harness/shield/tether used
- (03) Child safety seat used, but no after market harness/shield/tether added
- (09) Unknown if harness/shield/tether added or used

Designed With Harness/Shield/Tether

- (11) Harness/shield/tether not used
- (12) Harness/shield/tether used
- (19) Unknown if harness/shield/tether used

Unknown If Designed With Harness/Shield/Tether

- (21) Harness/shield/tether not used
- (22) Harness/shield/tether used
- (29) Unknown if harness/shield/tether used
- (99) Unknown if child safety seat used

INJURY CONSEQUENCES		
61. Injury Severity (Police Rating)	9	63. Type Of Medical Facility (for Initial Treatment)
 (0) O - No injury (1) C - Possible injury (2) B - Nonincapacitating injury (3) A - Incapacitating injury (4) K - Killed (5) U - Injury, severity unknown (6) Died prior to accident (9) Unknown 		(0) Not treated at a medical facility (1) Trauma center (2) Hospital (3) Medical clinic (4) Physician's office (5) Treatment later at medical facility (8) Other (specify):
62. Treatment - Mortality (0) No treatment (1) Fatal (2) Fatal - ruled disease (specify):	<u>3</u>	64. Hospital Stay (00) Not Hospitalized ——Code the number of days (up through 60) that the occupant stayed in hospital. (61) 61 days or more (99) Unknown
Nonfatal (3) Hospitalization (4) Transported and released (5) Treatment at scene - nontransported (6) Treatment later (7) Treatment - other (specify): (8) Transported to a medical facility-unknown if treated (9) Unknown	-	65. Working Days Lost Code the number of days (up through 60) that the occupant lost from work due to the accident (00) No working days lost (61) 61 days or more (62) Fatally injured (97) Not working prior to accident (99) Unknown
99. Case Occupant (0) Not the Case Occupant (1) This is the Case Occupant (2) This is the Case Occupant in another case.		

STOP WORK HERE

VARIABLES 66-74

TO BE CODED BY THE ZONE CENTER

BEST AVAILABLE

TO BE CODED BY THE ZONE CENTER

INJURY CONSEQUENCES		TRAUMA DATA
66. Time to Death Code number of hours from time of accident to time of death up through 24 hours. If time of death is greater than 24 hours, code number of days. (Note: 1 day 31, 2 days = 32, n days = 30 +n up through 30 days = 60) (00) Not fatal (96) Fatal - ruled disease (99) Unknown	<u>φ</u> φ =	71. Glasgow Coma Scale (GCS) Score (at Medical Facility) (00) Not injured (01) Injured - not treated at medical facility (02) No GCS Score at medical facility (03-15) Code the actual value of the initial GCS Score recorded at medical facility. (97) Injured, details unknown (99) Unknown if injured
 67. 1st Medically Reported Cause of Death 68. 2nd Medically Reported Cause of Death 69. 3rd Medically Reported Cause of Death Code the Occupant Injury from line number(s) for the medically reported 	$\frac{\phi}{\phi} \frac{\phi}{\phi}$	72. Was the Occupant Given Blood? (1) No - blood not given (2) Yes - blood given (specify units): (9) Unknown if blood given
injury(s) which reportedly contributed to this occupant's death (00) Not fatal or no additional causes (96) Mode of death given but specific injuries are not linked to cause of death. (specify):		73. Arterial Blood Gases (ABG) – HCO ₃ (00) Not injured (01) Injured, ABGs not measured or reported (02-50) Code the actual value of the HCO ₃ (96) ABGs reported, HCO ₃ unknown (97) Injured, details unknown (99) Unknown if injured
(97) Other result (includes fatal ruled disease) (specify):		BELT USE DETERMINATION
70. Number of Recorded Injuries for This OccupantCode the actual number of injuries recorded for this occupant. (00) No recorded injuries (97) Injured, details unknown (99) Unknown if injured	\$ 7	74. Primary Source of Belt Use Determination (0) Not equipped/not available/destroyed or rendered inoperative (1) Vehicle inspection (2) Official injury data (3) Driver/occupant interview (8) Other (specify):
		REST AVAILABLE

U.S. Department of Transportation

OCCUPANT INJURY FORM

BEST AVAILABLE

Form Approved O.M.B. No. 2127-002

NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

National Highway Traffic Safety Administration

1. Primary Sampling Unit Number

3. Vehicle Number

4. Occupant Number

2. Case Number - Stratum

INJURY DATA

Record below the actual injuries sustained by this occupant that were identified from the official and unofficial data sources. Remember not to double count an injury just because it was identified from two different sources. If greater than ten injuries have been documented, encode the balance on the Occupant Injury Supplement.

				A.I.S 9	ю				Injury	Occupant		
	Source of Injury Data	Body Region	Type of Anatomic Structure	Specific Anatomic Structure	Level of Injury	A.I.S. Severity	Aspect	Injury Source	Source Confidence Level	Direct/ Indirect Injury	Area Intrusion Number	ICD-9
1st	5. <u>2</u>	6. 1	7. <u>6</u>	s. <u>Ø</u> 2	9. \$	10. <u>A</u>	11. Ø 12	10	13. <u>/</u>	14	15. <u>ØØ</u>	85 <u>¢.</u> 1
2nd	16. <u>A</u>	17	18. <u>4</u>	12 <u>Ø 6</u>	20. <u>84</u>	21. <u>3</u>	22. <u>L</u> 23	φφ1	_ 24	25	26. <u>46</u>	802.6
3rd	27. <u>Ə</u> ,	28. <u>5</u>	29. <u>9</u>	30. <u>44</u>	31 <u>Ø</u> Z	32 <u> </u>	33 <u>-2</u> 34	<u> </u>	35	36	37. <u>ØØ</u>	9 <u>27.</u> 2
4th	38. <u>⊘</u>	39. <u>8</u>	40. <u>¶</u>	41. <u>Ø Z</u>	12 <u>10 2</u>	43. <u>/</u>	44. 145.	<u> </u>	_ 46	47. <u>L</u>	48 <u>(Bb</u>	916-6
5th	49. 🗘	.50. <u>8</u>	51. <u>9</u>	s2 <u>Ø 4</u>	53. <u>\$</u> 2	54. 🛴	55. <u>L</u> 56.	ØLL.	57	58. 🖊	59. <u>Ø</u> 6	9 <u>34-1</u> 1
6th	60. <u>A</u>	61. <u>8</u>	62 <u>9</u>	53. <u>Ø 6</u>	64 <u>⊉2</u>	65	66. <u> </u>	\$LL	68	69. <u> </u>	10. <u>d 6</u>	8 <u>91.</u> ø
7th	71. <u>2</u>	72 <u>8</u>	73. <u>S</u> :	74. <u>26</u>	75. <u>ØZ</u>	76. <u>2</u>	7778.	25Z	7 79	80	31. <u>Øø</u>	E\$8.\$
3th:	82	83	84 8	15	86:	87	8889,		90	91	12	
9th .	93	94	95 9	6	97	98	99100.		101	102:1	03	
10th	104	105	106,16	97	108	109	110111.		112	113 1	14	

OCCUPANT INJURY CLASSIFICATION

Body Region

- Head
- (2)Face
- (3)Neck
- (4)Thorax
- (5) Abdomen
- (6) (7) Spine Upper Extremity
- (8)Lower Extremity
- (9) Unspecified

Type of Anatomic Structure

- Whole Area (1)
- Vessels
- (2) (3) Nerves
- (4) Organs (includes Muscles/ligaments)
- (5)Skeletal (includes joints)
- (6)Head - LOC
- (9) Skin

Specific Anatomic Structure

Vessels, Nerves, Organs. Bones, Joints are assigned consecutive two digit numbers beginning with 02.

The exceptions to this rule apply to:

Whole Area

- Skin Abrasion (02)
- Skin Contusion (04)
- (06) Skin Laceration
- (08) Skin Avulsion
- (10) Amoutation
- (20) Burn Crush (30)
- (40) Degloving
- (50) Injury - NFS
- (90)Trauma, other than mechanical

Head - LOC

- (02) Length of LOC
- (04) Level
- (06) of
- (08) Consciousness
- (10) Concussion

Spine

- (02)Cervical
- (04) Thoracic
- (06)Lumbar

Level of Injury

Specific injuries are assigned consecutive two-digit numbers beginning with 02.

To the extent possible, within the organizational framework of the AIS, 00 is assigned to an injury NFS as to severity or where only one injury is given in the dictionary for that anatomic structure. 99 is assigned to any injury NFS as to lesion or severity.

Abbreviated Injury Scale

- Minor Injury
- Moderate Injury
- Serious Injury
- (2) (3) (4) (5) Severe Injury
- Critical Injury
- Maximum (untreatable)
- lnjured, unknown severity

Aspect

- Right
- (2) Left
- (3) Bilateral (4) Central
- (5) Anterior
- (6)Posterior
- (7)Superior
- (8) Inferior (9)
 - Unknown
 - Whole region

SOURCE OF INJURY DATA

OFFICIAL RECORDS

- (1) Autopsy records with or without hospital/medical records
- (2) Hospital/medical records other than emergency room (e.g., discharge summary)
- (3) Emergency room records only (including associated X-rays or other lab reports)
- (4) Private physician, walk-in or emergency clinic

UNOFFICIAL RECORDS

- (5) Lay coroner report
- (6) E.M.S. personnel
- (7) Interviewee
- (8) Other source (specify):
- (9) Police

INJURY SOURCE CONFIDENCE LEVEL

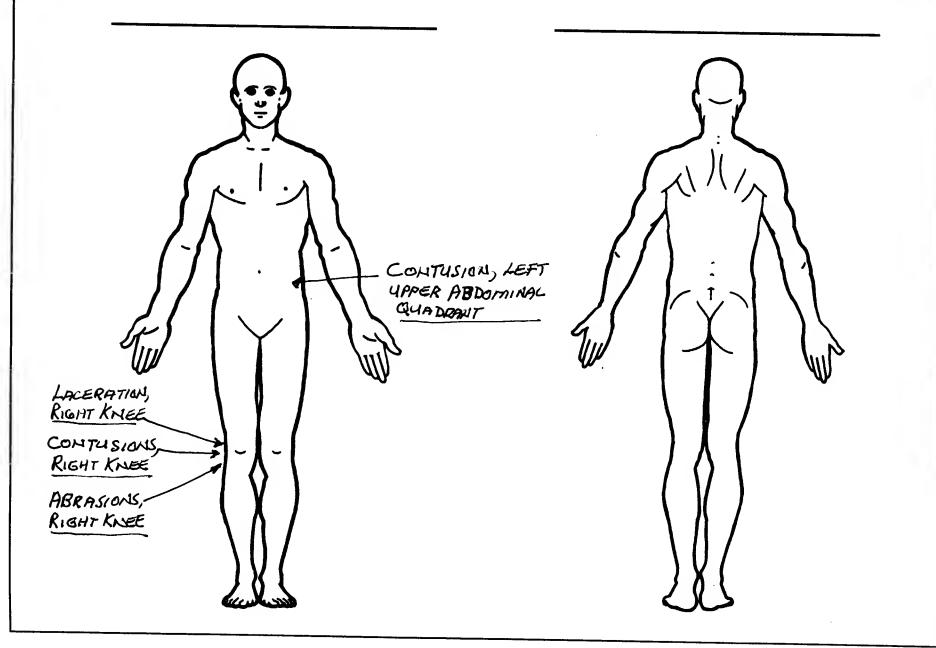
- (1) Certain Probable
- Possible
- (9) Unknown

DIRECT/INDIRECT INJURY

- Direct contact injury
- Indirect contact injury
- (2) (3) Noncontact injury
- Injured, unknown source

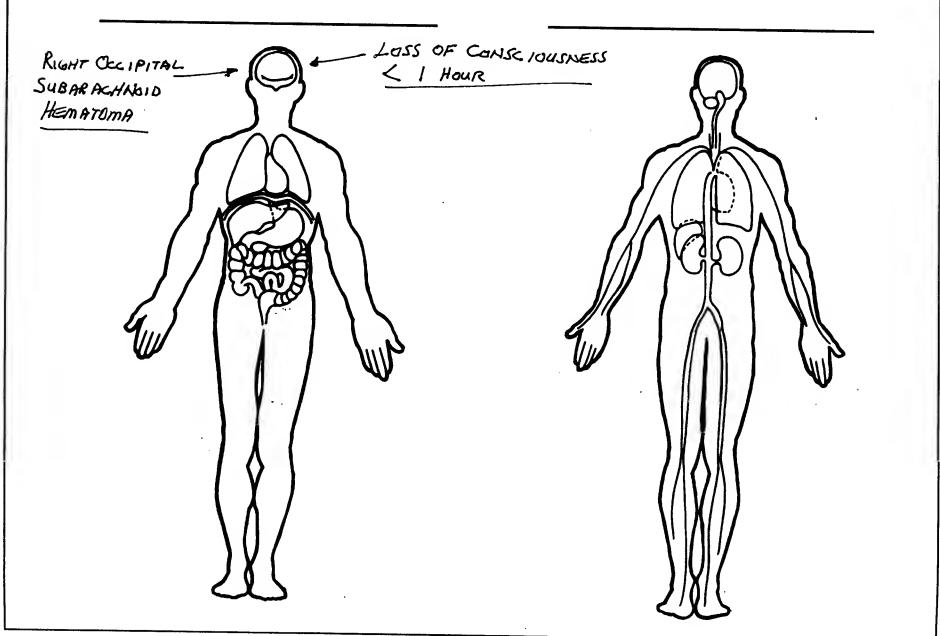
INJURY SOURCES FRONT (102) Right side hardware or (183) Air bag-passenger side and (411) Wall mounted head rest (used (001) Windshield armrest object held behind wheel chair) (002) Mirror (103)Right A (A1/A2)-pillar Air bag-passenger side and Other adaptive device (003)Sunvisor (104)Right B-pillar object in mouth (specify): (004)Steering wheel rim (105)Other right pillar (specify): (185) Air bag compartment (005)Steering wheel hub/spoke cover-passenger side (006)Steering wheel (combination (106)Right side window glass (186) Air bag compartment EXTERIOR of OCCUPANT'S of codes 004 and 005) (107)Right side window frame cover-passenger side and VEHICLE (007) Steering column, transmission Right side window sill (108)(451) Hood selector lever, other Right side window glass (109)(187) Air bag compartment (452)Outside hardware (e.g., attachment including one or more of the cover-passenger side and outside mirror, antenna) (008) Cellular telephone or CB radio following: frame, window sill, iewelry (453)Other exterior surface or tires (009) Add on equipment (e.g., tape A (A1/A2)-pillar, B-pillar, or (188) Air bag compartment (specify): deck, air conditioner) roof side rail. cover-passenger side and (010) Left instrument panel and (110) Other right side object object held (454) Unknown exterior objects (specify): (189) Air bag compartment (011)Center instrument panel and EXTERIOR OF OTHER MOTOR cover-passenger side and below object in mouth VEHICLE (012) Right instrument panel and INTERIOR (190) Other air bag (specify) (501) Front bumper below (151) Seat, back support (502) Hood edge (013) Glove compartment door (152)Belt restraint webbing/buckle (195) Other air bag compartment Other front of vehicle (014) Knee bolster (153)Belt restraint B-pillar or door cover (specify) (specify): (015) Windshield including one or frame attachment point more of the following: front (154) Other restrain! system (504) Hood header, A (A1/A2)-pillar, component (specify): ROOF (505) Hood omament instrument panel, mirror, or (201) Front header (506) Windshield, roof rail, A-pillar steering assembly (driver side (155)Head restraint system (202)Rear header (507) Side surface (160)only) Other occupants (specify): (203)Roof left side rail (508) Side mirrors (016) Windshield including one or (204)Roof right side rail (509) Other side protrusions more of the following: front (161)Interior loose objects (205)Roof or convertible top (specify): header, A (A1/A2)-pillar, (162)Child safety seat (specify): instrument panel, or mirror **FLOOR** (510) Rear surface (passenger side only) (163)Other interior object (specify): (251) Floor (including toe pan) (511)Undercarriage (017) Windshield reinforced by (252)Floor or console mounted (512)Tires and wheels exterior object (specify) transmission lever, including Other exterior of other motor AIR BAG console vehicle (specify): _ (019) Other front object (specify): (170) Air bag-driver side (253)Parking brake handle (171)Air bag-driver side and (254)Foot controls including (514) Unknown exterior of other evewear parking brake motor vehicle LEFT SIDE (172)Air bag-driver side and jewelry (051) Left side interior surface. (173)Air bag-driver side and object REAR OTHER VEHICLE OR OBJECT IN excluding hardware or (301) Backlight (rear window) THE ENVIRONMENT (174) Air bag-driver side and object (302) Backlight storage rack, (551) Ground (052)Left side hardware or armrest in mouth door, etc. Other vehicle or object (053) Left A (A1/A2)-pillar (175) Air bag compartment (303)Other rear object (specify): (specify): (054) Left B-pillar cover-driver side (055) Other left pillar (specify): (176) Air bag compartment (599) Unknown vehicle or object cover-driver side and eyewear ADAPTIVE (ASSISTIVE) DRIVING (056) Left side window glass (177) Air bag compartment EQUIPMENT NONCONTACT INJURY (057) Left side window frame cover-driver side and jewelry (401) Hand controls for (601) Fire in vehicle (058) Left side window sill (178) Air bag compartment braking/acceleration (602)Flying glass (059) Left side window glass cover-driver side and object Steering control devices (603)Other noncontact injury including one or more of the (attached to OEM steering source following: frame, window sill, (179) Air bag compartment wheel) (specify): A (A1/A2)-pillar, B-pillar, or cover-driver side and object in (403) Steering knob attached to (604) Air bag exhaust gases roof side rail. mouth steering wheel (697) Injured, unknown source (060)Other left side object (180) Air bag-passenger side (405) Replacement steering wheel (specify): Air bag-passenger side and (i.e., reduced diameter) evewear (406) Joy stick steering controls (182)Air bag-passenger side and (407) Wheelchair tie-downs RIGHT SIDE jewelry (408)Modification to seat belts. (101) Right side interior surface. (specify): excluding hardware or (409)Additional or relocated armrests switches, (specify): (410) Raised roof

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)



	OFFICIAL INJURY DA	TA — SKELETAL INJURIES
	Indicate the Location, Specific Anatomic Structure, Detail (size, depth, frac Source of all injuries indicated by official sources (or from PAR or other un unavailable.)	ture type, head injury elipical signs and
Blood Alcohol Leve (mg/dl) BAL =	to od	
Glasgow Coma Scale Score GCSS =		
Units of Blood Given Units = Arterial Blood Gase pH = PO ₂ =		
PCO ₂		RIGHT POSTERIOR ACETABULAR COLUMN FRACTURE (MULTIALE BONE FRAGMENTS)

Indicate the Location, Specific Anatomic Structure, Detail (size, depth, fracture type, head injury clinical signs and neurological deficits), and Source of all injuries indicated by official sources (or from PAR or other unofficial sources if medical records and interviewee data are unavailable.)





U.S. Department of Transportation National Highway Traffic Safety Administration

CRASHPC PROGRAM SUMMARY NATIONAL ACCIDENT SAMPLING SYSTEM CRASHWORTHINESS DATA SYSTEM

Identifying Title	DS1-95-SP-	d13	d 1		
Primary Sampling Unit	Case NoStratu		Accident Event Sequence No.	Date (Month, day, yea	r) of Run
CRASHPC Vehicle			/		
Vehicle 1	1983	DODGE	VAN		
Vehicle 2	<u> 19 91 </u>	TOYOTA	CELICA	GT5	
	Year	Make		Model	NASS Veh. No.
		GENERAL I	NFORMATION		ven. No.
	VEHICLE I			VEHICLE 2	
Size			Size		J
Weight			Weight		
1575 + 403 +	<u> </u>	<u> 78</u> kg	12-77 + 70	Z + Ø = <u>/ 3</u>	<u>4</u> 4 kg
Curb Occupant(s)	Cargo ファ	= 1.17	Curb Cocupant	t(s) Cargo	E W//
PDOF (-180 to +180)			CDC	- / A / D	-
Stiffness) - <u>-</u> 4	7	PDOF (-180 to -	+180)	4 / 4.
			Sunness		α
		With the second	ORMATION		
Rest and Impact Pos	itions] Na. G <i>o Ta</i>	Damege Inform	etion []Yes		
	VEHICLE 1			VEHICLE 2	
Rest	x	. m	Rest	X	m
Position	Υ	· m	Rest Position	Ŷ	m
	PSI	•		' PSI	m
mnaet		 		_	
mpact Position	×	· m	Impact Position	X	m
	PSI	·m		Y	m
Slip Angle(-180 to +1			Clin Angle / 190	PSI	
		VEHICLE	Slip Angle (-180 MOTION	LO +180)	
Sustained Contact [INC LIVE	VEINCEE			
	VEHICLE 1			VEHICLE 2	
//////////////////////////////////////	······	***************************************	Vehicle Rotation	f]No []Yes
thicle Rotation	111	**************************************	********************************]No []Yes
Rotation Stop Bef	fore Rest [] N	lo []Yes		•	1110 [1100
End of Rotation Position	x	m	End of Rotati Position	ion X	· m
Position	Υ	m		Υ	m
	PSI	•		PSI _	·
urved Path	1.14	- P 1 V	Curved Path]No []Yes
Point on Path	4[]	io []Yes	Point on Path	1	***************************************
X /	m Y	m	×	m Y	m
otation Direction	Ekima 1 to	N. E. LOOP!	Rotation Direction	ı - [:]None [CM [] CCM
Rotation >360° []		w [] ccm	Rotation >360°	[]No []Yes	▼····································
	1140 [] 165				

FRICTION	INFORMATION	TRAJECTO	RY INFORMATION
Coefficient of Friction	- VIII	Trajectory Data [1]	No []Yes
Rolling Resistance Opt	·	If No, Go To Damege	
,g		Vehicle 1 Steer Angles	
Vehicle 1 Rolling R	esistance	_	
	RF		
	RR		
		Vehicle 2 Steer Angles	
Vehicle 2 Rolling R	esistance	_	° RF •
LF	RF	LR	
LR	RR		·
		Terrain Boundary [] No [] Yes
		First Point	
		X	Y
		Second Point	
		X	Y
		Secondary Coefficient	
	DAMAGE IN	NFORMATION	
VE	EHICLE 1	VE	EHICLE 2
Damage Length	L <u> </u>	Damage Length	L <u>/ 4 Ø</u> cm
Crush Depths	c, <u>\$\phi \phi \phi \phi \cm</u> cm	Crush Depths	$c_1 \oint 4 \oint cm$
	C₂ <u>Φ Φ S</u> cm C₃ <u>Φ Ͻ Ͻ</u> cm		$C_2 = 0$ 0 0 cm
			$C_3 \underline{\mathcal{O}} \underline{\mathcal{S}} \underline{\mathcal{I}} \text{cm}$
	$C_{\bullet} = \frac{4 \times 3}{9 \times 7} \text{ cm}$		$\frac{c}{\sqrt{2}} \frac{\sqrt{2}}{\sqrt{2}} \frac{cm}{\sqrt{2}}$
	$c_s \frac{\sqrt{1}}{2} \frac{\sqrt{3}}{3} cm$		$C_5 - \sqrt{\varphi} \propto cm$
	98 7 D GIII		$C_6 $ $/$ $/$ $/$ cm
Damage Offset	D 04 74 cm	Damage Offset	D + <u>\$ \$ \$</u> cm
	HIDLHIA DHHY ATAMHALE	A FTA TRANSPORT FILL I	LTHE DECRMATION BELOW
Model Ye <u>ar:</u>		The Weight, CDC, Scene	Data and Damage Information ecorded above.
M <u>ake:</u>		for this vehicle should be r	ecorded above.
Mo <u>del:</u>			
VIN:			
Complete a	and ATTACH the appropriate vehicl	e damage sketch and dimen	sions to the Form.

DSI-95-SP-013

SPEED CHANGE			TOTAL (KPH)	LONG. (KPH)	LAT. (KPH)	ANG. (DEG)
(DAMAGE)	VEH	#1	59.7	-58.8	-10.4	10.0
	VEH	#2	87.9	-86.6	-15.3	10.0

ENERGY DISSIPATED BY DAMAGE VEH#1:474621.4 JOULES VEH#2:228616.2 JOULES

```
SUMMARY OF DAMAGE DATA
                               (* INDICATES DEFAULT VALUE)
          VEHICLE # 1
                                         VEHICLE # 2
TYPE-----CATEGORY
                                      TYPE-----CATEGORY 2
                                      STIFFNESS---CATEGORY 2
STIFFNESS---CATEGORY 7
                                      WEIGHT----- 1344.0 KGS
WEIGHT----- 1978.0 KGS
CDC-----12FDEW7
                                      CDC-----12FDEW4
L----- 187.0 CM.
                                      L----- 140.0 CM.
C1-----
              .0 CM.
                                      C1-----
                                                     40.0 CM.
C2----
                                      C2-----
              5.0 CM.
                                                     82.0 CM.
                                                    81.0 CM.
C3-----
              22.0 CM.
                                      C3-----
C4-----
             85.0 CM.
                                      C4----
                                                    95.0 CM.
C5-----
              97.0 CM.
                                      C5-----
                                                    102.0 CM.
C6-----
             123.0 CM.
                                      C6----
                                                    106.0 CM.
D-----
              24.0 CM.
                                      D-----
                                                      .0 CM.
RHO-----
              1.00
                                      RHO-----
                                                     1.00
ANG-----
             10.0 DEG.
                                      ANG-----
                                                    10.0 DEG.
D'----
             65.9 CM.
                                      D' ----
                                                     7.0 CM.
                   DIMENSIONS AND INERTIAL PROPERTIES
A1
        123.2
                CM.
                                     A2
                                                     CM.
                                             117.6
                                          =
В1
        174.0
                CM.
                                     B2
                                             127.3
                                                     CM.
                                          =
TR1
        171.7
                CM.
                                     TR2
                                             138.7
                                                     CM.
       475628.0
                NEWT-SEC**2-CM
                                            256853.0
                                                     NEWT-SEC**2-CM
I1
                                     12
                NEWT-SEC**2/CM
M1
       19.855
                                    M2
     =
                                          =
                                            13.491
                                                     NEWT-SEC**2/CM
XF1
       192.0
                CM.
     =
                                    XF2
                                          =
                                            211.6
                                                     CM.
XR1
     = -271.8
                CM.
                                    XR2
                                          = -232.7
                                                     CM.
YS1
     = 100.3
                CM.
                                     YS2
                                              85.3
                                                     CM.
```

DSI-95-SP-013

SPEED CHANGE		TOTAL (MPH)	LONG. (MPH)	LAT. (MPH)	ANG. (DEG)
(DAMAGE)	VEH #1	37.1	-36.5	-6.4	10.0
	VEH #2	54.6	-53.8	-9.5	10.0
ENERGY DISSIPATED	BY DAMAGE	VEH#1:350015.	8 FT-LB.	VEH#2:16859	6.0 FT-LB.

SUMMARY OF DAMAGE DATA VEHICLE # 1	(* INDICATES DEFAULT VALUE) VEHICLE # 2
TYPECATEGORY 7 STIFFNESSCATEGORY 7 WEIGHT 4360.7 LBS. CDC12FDEW7 L 73.6 IN. C10 IN. C2 2.0 IN. C3 8.7 IN. C4 33.5 IN. C5 38.2 IN. C6 48.4 IN. D 9.4 IN. RHO 9.4 IN. RHO 1.00 * ANG 10.0 DEG. D' 25.9 IN.	TYPECATEGORY 2 STIFFNESSCATEGORY 2 WEIGHT 2963.0 LBS. CDC12FDEW4 L 55.1 IN. C1 15.7 IN. C2 32.3 IN. C3 31.9 IN. C4 37.4 IN. C5 40.2 IN. C6 41.7 IN. D 0 IN. RHO 1.00 * ANG 1.00 DEG. D' 2.8 IN.
DIMENSIONS AND	INERTIAL PROPERTIES
A1 = 48.5 IN. B1 = 68.5 IN. TR1 = 67.6 IN. I1 = 42098.7 LB-SEC**2-IN M1 = 11.338 LB-SEC**2/IN XF1 = 75.6 IN. XR1 = -107.0 IN. YS1 = 39.5 IN.	A2 = 46.3 IN. B2 = 50.1 IN. TR2 = 54.6 IN. I2 = 22734.5 LB-SEC**2-IN M2 = 7.704 LB-SEC**2/IN XF2 = 83.3 IN. XR2 = -91.6 IN. YS2 = 33.6 IN.

SP-13 Vehicle 1 ebs

SPEED CHANGE		TOTAL (KPH)	LONG. (KPH)	LAT. (KPH)	ANG. (DEG)
(DAMAGE)	VEH #1	76.2	-75.1	-13.2	10.0
	VEH #2	.0	.0	.0	.0
ENERGY DISSIPATED	BY DAMAGE	VEH#1:474621	.4 JOULES	VEH#2:	.0 JOULES

SUMMARY OF DAMAGE DATA (* INDICATES DEFAULT VALUE) VEHICLE # 1 VEHICLE # 2 TYPE-----CATEGORY 7 TYPE-----CATEGORY 11 STIFFNESS---CATEGORY 7 STIFFNESS---CATEGORY 0 WEIGHT---- 999999.9 KGS WEIGHT---- 1978.0 KGS CDC-----BARRIER CDC-----12FDEW7 L----- 187.0 CM. L-----.0 CM. .0 CM. C1-----C1-----.0 CM. C2-----5.0 CM. C2----.0 CM. .0 CM. C3-----22.0 CM. C3-----C4-----85.0 CM. C4 - - - - - - - -.0 CM. C5----97.0 CM. C5-----.0 CM. C6-----123.0 CM. C6----.0 CM. D-----24.0 CM. D-----.0 CM. RHO-----1.00 RHO-----1.00 ANG-----10.0 DEG. ANG-----.0 DEG. D'----65.9 CM. D'----65.9 CM. DIMENSIONS AND INERTIAL PROPERTIES **A**1 123.2 CM. **A2** 127.0 CM. B1 = 174.0 CM. B2 127.0 CM. TR1 171.7 CM. TR2 127.0 CM. 475628.0 NEWT-SEC**2-CM I1 12 =********** NEWT-SEC**2-CM = =***** = 19.855 NEWT-SEC**2/CM M1 M2 NEWT-SEC**2/CM XF1 192.0 CM. XF2 127.0 CM. -271.8 XR1 = CM. XR2 -127.0 CM. 100.3 YS1 CM. YS2 127.0 CM.

SP-13 Vehicle 1 ebs

SPEED CHANGE		TOTAL (MPH)	LONG. (MPH)	LAT. (MPH)	ANG. (DEG)
(DAMAGE)	VEH #1	47.4	-46.6	-8.2	10.0
	VEH #2	.0	.0	.0	.0

ENERGY DISSIPATED BY DAMAGE VEH#1:350015.8 FT-LB. VEH#2: .0 FT-LB.

```
SUMMARY OF DAMAGE DATA
                                (* INDICATES DEFAULT VALUE)
          VEHICLE # 1
                                         VEHICLE # 2
TYPE-----CATEGORY 7
                                      TYPE-----CATEGORY 11
                                      STIFFNESS---CATEGORY 0
STIFFNESS---CATEGORY 7
                                      WEIGHT-----2204586.0 LBS.
WEIGHT----- 4360.7 LBS.
CDC-----12FDEW7
                                      CDC-----BARRIER
L----- 73.6 IN.
                                      L-----
                                                     .0 IN.
C1-----
              .0 IN.
                                      C1-----
                                                     .0 IN.
C2----
                                      C2----
              2.0 IN.
                                                     .0 IN.
C3-----
              8.7 IN.
33.5 IN.
                                      C3-----
                                                      .0 IN.
C4----
                                      C4-----
                                                      .0 IN.
              38.2 IN.
C5-----
                                      C5-----
                                                      .0 IN.
                                      C6----
C6-----
              48.4 IN.
                                                     .0 IN.
                                                              *
D-----
              9.4 IN.
                                      D-----
                                                      .0 IN.
RHO-----
                                      RHO-----
              1.00
                                                    1.00
ANG-----
              10.0 DEG.
                                      ANG-----
                                                     .0 DEG.
D'-----
             25.9 IN.
                                      D'----
                                                    25.9 IN.
                   DIMENSIONS AND INERTIAL PROPERTIES
         48.5
Α1
                IN.
                                              50.0
                                    A2
                                                     IN.
                                          =
B1
         68.5
                IN.
                                    В2
                                              50.0
                                                     IN.
                                          ==
TR1
         67.6
                IN.
                                    TR2
                                              50.0
                                                     IN.
        42098.7
                LB-SEC**2-IN
I1
                                    12
                                          =5732151000.0 LB-SEC**2-IN
M1
     = 11.338
                LB-SEC**2/IN
                                    M2
                                          =5732.151
                                                     LB-SEC**2/IN
XF1
        75.6
                IN.
                                    XF2
                                             50.0
                                                     IN.
                                          =
XR1
       -107.0
                IN.
                                    XR2
                                             -50.0
                                                     IN.
YS1
         39.5
                IN.
                                    YS2
                                             50.0
                                                     IN.
```

SP-13 Vehicle 2 ebs

85.3

CM.

YS1

SPEED CHANGE (DAMAGE)	VEH #1 VEH #2	TOTAL(KPH) 65.4 .0	LONG.(KPH) -64.4 .0	LAT.(KPH) -11.4 .0	ANG. (DEG) 10.0 .0
ENERGY DISSIPATED	BY DAMAGE	VEH#1:228616	.2 JOULES	VEH#2:	.0 JOULES

SUMMARY OF DAMAGE DATA (* INDICATES DEFAULT VALUE) VEHICLE # 1 VEHICLE # 2 TYPE-----CATEGORY 2 STIFFNESS---CATEGORY 2 TYPE-----CATEGORY 11 STIFFNESS---CATEGORY 0 WEIGHT-----1344.0 KGS WEIGHT---- 999999.9 KGS CDC-----12FDEW4 CDC-----BARRIER L----- 140.0 CM. L----.0 CM. C1-----40.0 CM. C1-----.0 CM. C2-----C2----.0 CM. 82.0 CM. C3-----81.0 CM. C3-----.0 CM. C4----95.0 CM. C4-----.0 CM. C5----- 102.0 CM. C5-----.0 CM. C6-----106.0 CM. C6----.0 CM. D-----D-----.0 CM. .0 CM. RHO-----1.00 RHO-----1.00 ANG-----10.0 DEG. .0 DEG. ANG-----D'----7.0 CM. D' ----65.9 CM. DIMENSIONS AND INERTIAL PROPERTIES 117.6 CM. A1 A2 127.0 CM. B1 127.3 CM. B2 127.0 CM. TR1 138.7 CM. TR2 127.0 CM. 256853.0 NEWT-SEC**2-CM =*********** NEWT-SEC**2-CM I1 = 12 M1 13.491 NEWT-SEC**2/CM M2 =***** = NEWT-SEC**2/CM XF1 211.6 CM. XF2 127.0 CM. = -127.0 XR1 -232.7 CM. XR2 CM.

YS2

127.0

CM.

SP-13 Vehicle 2 ebs

33.6

IN.

YS1

SPEED CHANGE		TOTAL (MPH)	LONG. (MPH)	LAT. (MPH)	ANG. (DEG)
(DAMAGE)	VEH #1	40.6	-40.0	-7.1	10.0
	VEH #2	. 0	.0	. 0	.0
ENERGY DISSIPATED	BY DAMAGE	VEH#1:168596	.0 FT-LB.	VEH#2:	.0 FT-LB.

SUMMARY OF DAMAGE DATA (* INDICATES DEFAULT VALUE) VEHICLE # 1 VEHICLE # 2 TYPE-----CATEGORY 2 TYPE-----CATEGORY 11 STIFFNESS---CATEGORY 2 STIFFNESS---CATEGORY 0 WEIGHT----- 2963.0 LBS. WEIGHT-----2204586.0 LBS. CDC-----12FDEW4 CDC-----BARRIER L----55.1 IN. L-----.0 IN. C1-----15.7 IN. C1-----.0 IN. C2----C2----32.3 IN. .0 IN. C3-----31.9 IN. C3-----.0 IN. C4----C4-----37.4 IN. .0 IN. C5----C5----.0 IN. 40.2 IN. C6-----41.7 IN. C6-----.0 IN. D-----.0 IN. D-----.0 IN. * RHO-----RHO-----1.00 1.00 ANG-----10.0 DEG. ANG-----.0 DEG. D'----2.8 IN. D'----25.9 IN. DIMENSIONS AND INERTIAL PROPERTIES Α1 46.3 IN. 50.0 IN. **A**2 = В1 50.1 IN. B2 50.0 IN. = = TR1 54.6 IN. TR2 50.0 IN. 22734.5 LB-SEC**2-IN I1 =5732151000.0 LB-SEC**2-IN 12 M1 = 7.704 LB-SEC**2/IN M2 =5732.151 LB-SEC**2/IN 83.3 XF1 IN. XF2 50.0 IN. = XR1 -91.6 IN. -50.0 XR2 = IN.

YS2

50.0

IN.



U.S. Department of Transportation

SMASH PROGRAM SUMMARY

(All Measurements in Metric) NATIONAL ACCIDENT SAMPLING SYSTEM National Highway Traffic Safety CRASHWORTHINESS DATA SYSTEM Administration Identifying Title DS1-95-SP-0/3 Case No.-Stratum Accident Event Date (Month, day, year) of Run Primary Sampling Unit Sequence No. **GENERAL INFORMATION VEHICLE I VEHICLE 2 NASS Vehicle Number** NASS Vehicle Number Year Year DODGÉ TOYOTA Make Make RAM VAN CELICA Model Model **Body Style Body Style** 12FDEW CDC CDC **PDOF PDOF** Heading Angle Heading Angle VEHICLE SPECIFICATIONS **VEHICLE I VEHICLE 2** Wheelbase Wheelbase Overall Length Overall Length Overall Width Overall Width Weight Weight 1272 Curb Occupant(s) Curb Occupant(s) 5.2 L **Engine Displacement Engine Displacement** RWD **Drive System Drive System** Size Size Stiffness Stiffness DAMAGE INFORMATION VEHICLE I **VEHICLE 2** Damage known? Damage known? Damage Length Damage Length Damage Offset Damage Offset Crush Depth: Crush Depth:

SCENE INFORMATION							
	Rest and Impa	act Positi	ons [] No [] Yes			
0	VEHICLE 1		Dank	VEHICLE 2 X . m			
Rest	X · _	m	Rest	X m			
Position	Υ	m	Position	Y m			
	PSI	•		PSI °			
Impact	х	m	Impact	X m			
Position	Υ	m	Position	Y m			
	PSI	•		PSI °			
Slip Angle (-180 to -	+ 180)	•	Slip Angle (-18	0 to +180) °			
	V	EHICLE	MOTION				
Sustained Contact			Sustained Cont	tact [] No [] Yes			
Vehicle Rotation	VEHICLE 1] Yes	Vehicle Rotatio	VEHICLE 2			
Rotation Stop Be] Yes		top Before Rest [] No [] Yes			
End of Rotation	x	m	End of Rota	ation X m			
Position	Υ	m	Position	Y m			
	PSI	•		PSI •			
Curved Path	[] No []	j Yes	Curved Path	[] No [] Yes			
Point on Path			Point on Pa				
X	m Y	m	X	m Ym			
Rotation Direction Rotation > 360°	[] None	CUW	Rotation Directi Rotation > 36				
	FRICT	ION IN	IFORMATION				
Coefficient of Friction				·			
Rolling Resistance O	ption						
Vehicle 1 Rolling Re	sistance		Vehicle 2 F	Rolling Resistance			
LF	RF		LF	RF			
LR	RR		LR	RR			
# THIS COL. (C	COTACO AS DEALES	'EHILLE A	VOT IN TRANSPORT	, FILL IN THE INFORMATION BELOY.			
Model Year:			The Weight, CDC, Scene Data and Damage Information for this vehicle should be recorded above.				
Make:							
Model:			Complete and ATTACH the appropriate				
			dimbate ska	ich and dimensions to the form.			